

AND A MANUFACTURING AND TEXTILE PAPER, DEVOTED TO THE UPBUILDING OF SOUTHERN MANUFACTURES AND THE DEVELOPMENT OF THE MATERIAL RESOURCES OF THE SOUTH.

Vol. 8. No. 3. WEEKLY.

BALTIMORE, AUGUST 29, 1885.

\$3.00 PER ANNUM. SINGLE COPIES, 10 CENTS.

-MANUFACTURERS OF-

MIAS. SMITH & CO.

---DEALERS IN-

CARDCLOTHING

Works, 413 to 421 Race St., Cor. of Crown,

dalahia

Manufacturers' & Mill Supplies

COTTON and WOOLEN MACHINERY.

Office & Store, 137 Market St., Philadelphia.

Of Every Description.



NORDYKE & MARMON CO., INDIANAPOLIS, IND. Flour Mill Machinery.

We make Rolls or Portable Mills for making New Process Corn Meal.

Complete outfits on any system Rolls or Stones for Wheat Grinding.

Send for Circular of our \$500 Flour Mill Outfit.



ELEVATORS

MORSE ELEVATOR WORKS.

MORSE, WILLIAMS & CO-CLEM & MORSE

LT and Hand-Power, PASSENGER and FREIGHT | FILH VAITORS | Dumb-Waiters, Automatic Hatch-Doors, & Office: 411 CHERRY STREET, | PHILADELPHIA, PA.

1 for Illustrated Circulars.

ECLIPSE"

"STRAIGHT LINE"



ROCK DRILLS. AIR COMPRESSORS.

Machinery for Tunneling, Grading, Mining, Quarrying, etc.
TEN COMPLETE TUNNELING PLANTS FURNISHED FOR SOUTH PENNA. RAILROAD, PA.

FOR CATALOGUES, ESTIMATES. &c., ADDRESS,
INGERSOLL ROCK DRILL CO., 10 Park Place, N. Y.

MORTON, REED & CO., Agents, Baltimore.



Buerk's Watchman's Time Detector.



Capable of controlling with the utmost accuracy the motion of a watchman or patrolman as the same reaches different stations of his beat. The instrument is complete in itself, portable, and as reliable as the best lever watch. It requires no fixture or wires communicating from room to room, as is the case with ordinary watch clocks.

The Instrument will in all Cases be Warranted Perfect and Satisfactory.

P. O. Box 2470

J. E. BUERK, Proprietor, No. 230 Washington St., BOSTON, MASS.

J. A. J. SHULTZ, President

C. ALVORD, Secretary.

SHULTZ BELTING COMPANY, ST. LOUIS, MO.

Manufacturers of Shultz Patent Fulled Leather Belting, Lace and Picker Leather.

OUR BELTING is made of Leather, tanned on the surfaces only; the interior (which is the fibre and strength of the hide) is not tunned, but Rawhide fulled and softened by our patent process. Our belting is more pliable, and hugs the pulley better and transmits more power than any other Belt. It does not pull out at the laceboles or rivets. It stretches less than any other Belt. It works equally well for the largest Driving Belts or for the fastest running machinery and smallest pulleys. OUR LACE LEATHER is made of Kawhide, by our patent process, without any tanning and is stronger and will wear better than any other. WE ALSO MAKE THE BEST PICKER LEATHER AND BELT GREESE IN THE COUNTRY. Satisfaction guaranteed.

Sonthern Agents—FRED. N. OGDEN, New Orleans, La.

J. H. COFFIN & CO., Memphis, Tenn.

J. STEVENS & CO. "PREMIER" RIFLES, Nos. 7 and 8.

The following letter refers to a Stevens' New Model Pocket Rifle, weighing about two pounds, is from a perfectly reliable gentleman (whose name is at the service of any applicant).

LAMPKIN, GA

Dec. 28th, 1884 Messrs. J. Stevens & Co. Gentlemen :- My prefer for your guns has been strengthened by the following circumstances: Some weeks ago a friend brought a small pocket rifle to have me clean up for him, as it had become rusty from neglect and disuse.
I saw your name, "J. Stevens & Co.," on the barrel, and I said to him, that I would wager that it was a fine shooting gun. Said he, my father has carried that rifle for fifteen years, and has bagged all sorts of game with it, from deer to small birds. He once killed an alligator with it at 110 yards. He always shoots squirrels in the head, no mat-ter how high they get. At this moment another man, who had done business for the old man on his farm for a number of years, and used the rifle a great deal, stepped up, and, overhearing the conver-sation, remarked: "Yes, it is the best rifle I ever saw.
I have killed squirrels almost
by the thousand with it, and killed ducks by the hundred at all distances. I once kill-ed a duck with it at 240 yards." I thought this very remarkable, as it is a very remarkable, as it is a very small gun, barrel only 12 inches long, with skeleton shoulder stock, 32 caliber. The gentlemen says, "If you will clean it up you can use it whenever you like," handing me a box of cartridges. "He said, "You will be surprised at its shoulting qualities." So said, "You will be surprised at its shooting qualities." So I rubbed the gun up nicely, and made an agreement with a friend to go hunting. When we met he remarked, "Where is your gun?" (eyeing the little thing with a disappointed curiosity). I told him I would take it along for practice and the state of tice, and would let him kill the game with his shot-gun. With a kind of a sneer he said, he thought I wanted to go hunting. Very soon the dog treed a squirrel in a very tall hickory, and, getting sight of it first, I raised the sight of it first, I raised the rifle and down came the squirrel. "Well," said he, "the little thing shoots like anything." Pretty soon he shot at a dove about 40 yards off and missed it. I raised the rifle and brought it down. With a puzzled air he re-With a puzzled air he re-marked, with much emphasis.
"That thing shoots like the mischief." It was not long before the dog barked up a large, tall pine tree, in which we soon found a very large fox squirrel. I let him take two shots at the squirrel, which only caused him to go to the very top. Then I took a shot. At the crack of the rifle, the squirrel came crashing down, shot in the head.

My friend then came up and took the rifle in his hand and examined it very closely.
"Well," said he, "it shoots like the—. I did not think it was in the thing."

A. W. L.

No. 7.

CHICOPEE FALLS, MASS.

American Field, Jan. 10, 1885.—**The next gun was a 22 caliber Stevens, and a pair of beautiful pistols, made by Stevens, on the Lord pattern. These weapons Dr. Carvor uses on the stage, and does all his fancy shooting with. Isaw him during the morning shoot with these pistols, in two consecutive shots, two half dollars thrown in the air, and he sent them whizzing away with holes nearly through the center of both. Opening a window, and calling upon Hans (one of his No. 7. 33,38 or 44 cal. 24 inch, \$29,00 . \$29.00 . \$29.00 26 inch, \$1.00 . 30.00 28 inch, 33.00 . 31.00 30 inch, 35.00 . 32.00

Vernier and Open Back Sight and Beach Front Sight. attendants) to fix up a target, I saw him shoot twenty shots, fired at forty steps, and the bullets could all be covered with a ton cent piece."

Mr. Reoves, in American Field, Dec. 6, 1884.—
"Regarding the feat of Mr. Ira A. Paine with a Stevens' Gallery Pistol, 22 caliber. He put several shots in a one inch bulleaye in a card, held in a lady's hand at ten yards and then hit the card edgewise three shots out of four. Small cards measuring four and a half by three inches

No. 5. 22 Cal. 33, 38 or 44 Cal. 24 inch, \$25.00 ... \$25.00 ... \$25.00 26 inch, 27.00 ... 26.00 28 inch, 29.00 ... 27.00 30 inch, 31.00 ... 28.00 No. 6 same style as 5, bu fancy finish, \$2.00 extra.

No. 2, 22 Cal.; No. 1, 32, 38 and 44 Cal.

were then substituted with three spots in the center of the card like the three of hearts, when he put a shot through each heart. The next feat was firing at a walnut and grape placed on the top of his wife's head, on a small pedestal about one inch high. He knocked the grape off the first shot, and then the walnut at the second shot, all at the same distance—ten yards."

No. 2.

23 Cal.

24 inch, \$20.00. \$20.00

25 inch, \$20.00. \$20.00

28 inch, \$24.00. \$20.00

30 inch, \$26.00. \$20.00

Fancy finish, \$2.00 extra. Weight of Rifles 61 to 81 pounds.

Stevens' "Crack-Shot" Rifle costs \$6.00 more than Nos. 1 and 2.
man" Sight on stock in place of open rear sight on barrel. Otherwise like Nos. 1 and 2.
ered for rim fire cartridges, unless otherwise ordered. On request will chamber for any desired rim or central

The "Crack-Shot" has "Lyn All Rifles or Pets are chambe STEVENS' HUNTERS' PET RIFLE. n, 33, 38 or 44 Caliber, Rim or Central Fire, with Comb 8 inch, \$18.00. 29 inch, \$19.00. 22 inch, \$20.00. 18 inch, \$18.00.

Weight of 18 inch about 5 1-4 lbs. and good for 40 rods.

Swiss Stock with Fore-

end, Vernier and Open Back Sights and Globe

STEVENS

"EXPERT" RIFLES,

Nos. 5 and 6.

STEVENS

OPEN SIGHT RIFLE.

Sight

24 inch, \$21,00. With Vernier Sight on Stock \$2.00 extra.

HUNTERS' PET SHOT GUNS.

ne style and price of the above, to use the Stovens' Releading Central Fire Shell, 38 or 44 Cal. or the U.M.C. Co.'s Berdan Primer, 20 cal. Shell.

NOTE.—Central Fire Hunters' Pet Rifte Barrels and Shot Barrels fitted to same frame when so ordered. Price of 18 inch, extra, \$10.00.

Price of 18 inch Shot Barrel, \$13 00

Mahogany Cases for Pet, 500

STEVENS' NEW MODEL POCKET RIFLES.

Weight of 10 inch about 22 or 32 Cal., Rim Fire with Com-bined Sights.

10 inch. 12 inch. 15 inch. 18 inch. \$12.25. \$13.25. \$15.00. \$16.50. Extra Barrels only, full sighted.



STEVENS' NEW MODEL POCKET SHOT GUNS.

For Taxidermists' use, same style and price of the New Model Pocket Rifle, was the Stevens' Releading Brass Shells, 38 and 44 Cal.

Mohagany Cases for New Model Pocket Rifles, 10 inch, \$2.50; 12 inch, \$2.75; 15 inch, \$3.00; 18 inch, \$3.50.



STEVENS' OLD MODEL POCKET RIFLES.

22 Cal. with Globe and Peep Sights. 10 inch, Plated rest. Japanned rest. \$11.00 \$10.50

6 inch, no rest, \$7.00. 8 inch. Plated rest. \$10,00

STEVENS' GALLERY PISTOLS.

10 00



Single-Shot Pistol, 314 inch Barrel, \$2.50. 22 or 30 Cal.

STEVENS' Single Barrel Breech Loading Shot Gun.

BOLT.-10, 12, OR 16

Lengths 28 to 32 inch Barrel.

Weight of 12, 14 or 16 Gauge, 6 to 7 Pounds.

" 10 Gauge, 6 1-2 to 7 1-4 Pounds.

WITH FOREHAND STOCK Plain Barrels, 12, 14 and 16 gauge..... with ex. 26 in. Rifle Barrel, set loading tools and 25 shells. \$14.50 32.00 15.50 17.50 19.00 2.50

Twist ' 10 gauge . 13.50

Twist ' 12 and 14 gauge . 15.60

Laminated Steel Barrels, 12 and 14 gauge . 17.00

Extra Finish on any of the above . 17.00

Central Fire Rifle Barrel 26 in., 32 to 44 calibre, to fit any of the above Guns, extra . 12.00

Sighted with Combined Peep and Globe and plain open Sights.



to pass unless it would make

sive shots, 50 feet.

WHY should every Lawyer, Doctor, Preacher, Teacher, or any one who needs pleasant recreation to draw the mind away from their daily cares, buy and constantly use some one of the various arms made by J. Stevens & Co. ?

BECAUSE when any one practices woulderful accuracy the interest does not diminish, but increases constantly. You can practice an hour or two a day, a hundred and fifty times in a year, without tiring. When your skill is such that you can make targets like the first, try itats longer distance and you will be surprised at the pleasure that results from the accomplishment of the object.

BECAUSE all their arms are easily taken apart to carry in a truck g, or in a small package,

BECAUSE you can with a little

BECAUSE when you buy one of sure of an accurate shooter. Every arm before it can leave their factory must by actual trial make targets of which the best one above is a fair sample. No Fisherman's outfit is complete without a two-pound Pocket Rifle with which to knock over any game, large or small, he is likely to come across,

Mr. Jones, of (Pittsburgh, lately made some remarkable shooting with Stevens' Rifle with 23 short cartridge at 200 yards. It is something new to see a Rifle with 22 short cartridge com-peting successfully on the 200 yard range with Rifles of the best makers shooting very much larger cartridges.

Mr. Butler, of Syracuse, N. Y., has four other Rides of the best makes, but says he uses his little Stevens's dozen times as much as all the rest, it is so convenient to carry and so wonder-

Mr. R. B. Fuller, 172 South Clark St. Chicago, has a twenty dollar Stevens' Rifle that has been used in his shooting gallery every day for eight years, which is now in good order after having been shot over 500,000 times.

Mr. Carpenter, of Louisville, Ky., lately went to a turkey shoot and se-cured 7 turkeys in a couple of hours. He shot a 22 caliber 18 inch New Model Pocket Rifle weighing 2)6

225 yards.

Mr. Ingersoll, who has two of the finest shooting gallerles in Pittsburgh (and probably in the world) has at present "Thirty-cne (31) Stevens' Rts-fles in use in his gallerles.

R. P. Cory, of Consecon, Canada West: I have used for three years a Stevens' 22-caliber Pocket Rifle, haveahot it about 15,000 times, can kill all sorts of small game with it a great deal farther than with the beat Shot Gun. For squirrel shooting I will match this little Pocket Rifle against any man with the best Shot Gun that can be brought forward.

From American Field.—"For careful boring and grooving, and perfection of workmanship in every particular, I consider the Stevens' Bifle the superior of any in the market." COQUINA.

My Old Model Pocket Rifle after being sed 8 or 9 years, is as fine as ever. A. R. C.

A. R. C. 26 in. barrel, 38 calibre Rifles, and it is the finest shooting rifle I ever saw. I have also one of the Hunters' Pet, 32 calibre, the best short range rifle I ever owned. They are a perfect rifle in every respect. W. S. D.

I received the 10 inch Stevens' Nife, and was very much pleased to find it the best shooting article that I have ever handled. The first shot I fired, I knocked one of Dad's hens over at 8 rods. C. T. T.

-BARTLETT, HAYWARD & CO.

--- WORKS: -

Pratt and Scott Streets, BALTIMORE, MD.



OPPIEE:-

Cor. German and Calvert. BALTIMORE, MD.

Architectu

IRON FRONTS, COLUMNS, SHUTTERS, CASTINGS AND ORNAMENTAL IRON WORKS.





BOILER IRON WORK.



HOT-WATER HEATING, HIGH AND LOW PRESSURE STEAM HEATING.

MEATING. The Heating and Ventilating of Public Buildings a Specialty. Correspondence Solicited.

Stokes & Parrish Machine Co's Standard Hydraulic ELEVATOR.

Unequalled for safety, extreme simplicity, great economy in the use of water. No hability to derangement and consequent stoppages and delays. Least possible wear of ropes and other parts of the machine. Ease and facility with which the packing may be renewed. Simplicity of manipulation and operation.

Smoothness and Noiselessness of motion. Freedom from shock caused by abrupt stoppages.

POOLE & HUNT,

-1851.--

Founders and Machinists.

POOLE & LEFFEL * TURBINE .

Prices as Low as any

MUNT'S

other First-Class Wheel.

₩ Machine & Moulded ❖

Our plant for the production of MACHINE-MOULDED MILL GEARING is unequaled in the country, and we are prepared to fill orders with dispatch and at GREAT SAVING IN COST OF PATTERNS.



Shafting, Pulleys, HANGERS, PEDESTALS.

SHAFTING, PULLEYS, HANGERS

and COUPLINGS, of latest and most approved designs.

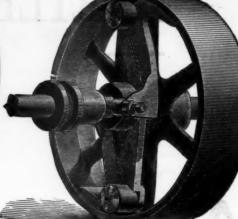
N. B.—Shipping facilities the best in all directions.

Send for Pamphlet. Send for Price-List. \$222222222222222

List of our Gearing Mailed on Application. SPOOLE & HUNT, BALTIMORE, MD.







PATENT FRICTION PULLEY.

Simple, reliable and very durable. Suitable for any kind of driving, they serve equally well as driver or driven.



such as Angular, Muley, and Gallows Driving, furnished for any position where possible to transmit power by belts.

PULLEYS from 4 inches to 10 feet in diameter.

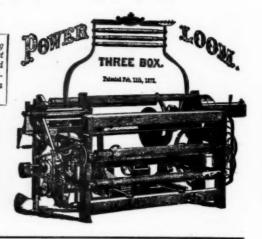
Why use old style Bearings, that require oiling every day, when you can get Bearings at less cost that only require oiling once in Six Months, and thus wave oil and labor enough to pay for the bearings in use. Test the matter for yourselves; a trial always secures the trade.

ADDRESS.

THOS. WOOD,

Office, 2106 Wood St.

PHILADELPHIA, PENNA., U. S. A.



SACO WATER-POWER MACHINE SHOP,

BIDDEFORD, MAINE,

Manufacturers of

COTTON * MACHINERY

OF THE MOST IMPROVED PATTERNS.

CARDS,

Cylinders, 36x36 and 36x30, with 20 tops and Self-Strippers and Railway Troughs. Union Cards, with workers, strippers and tops.

FINISHER RAILWAY HEADS.

DRAWING FRAMES, ANY LENGTH, WITH 3, 4 AND 5 LINES OF STEEL ROLLERS. English Slubbers and Fly Frames, With Long or Short Bolsters.

BOBBINS-12x6, 11x5\frac{1}{2}, 10x5, 9x4\frac{1}{2}, 8x4, 7x3\frac{1}{2}, 6x3, and 5x2\frac{1}{2}.

RING SPINNING FRAMES, 2, 13, 18 AND 12 INCH RINGS.

TWISTERS.

SELF-ACTING MULES, Parr, Sharp and Roberts' and Higgins' Pattern,

18, 1 5-16, and 11-inch Gauge.

S. W. RICHARDSON, Treasurer,

No. 1 Simmons Building, Boston.

JAS. H. McMULLAN, Agent,

Biddeford, Maine.

HOWARD & BULLOUGH, & RILEY,

Wool, Worsted and Flax Machinery and English Card Clothing. Hardened and Tempered Steel Wire a Specialty. MILL ENGINEERS. No. 19 PEARL STREET, BOSTON, MASS.

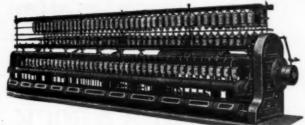
GREAT SUCCESS OF OUR

PATENT ELECTRIC STOP-MOTION,

10,000 DELIVERY HEADS OF DRAWING, AND

71,000 INTERMEDIATE ROVING SPINDLES.

The quality of Sliver produced by our Frames surpasses all others, and Waste, Single and Roller Laps are prevented, and production increased.



SPECIALTIES: EXHAUST OPENERS, LAPPERS, (LORD'S EVENERS,) IMPROVED ROLLER CARDS, PRODUCE MORE AND MAKE LESS WASTE THAN ANY OTHER.

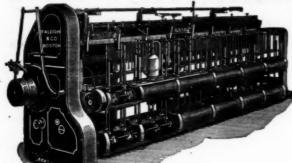
7.000 SELF-STOPPING WARPERS, Already working with latest im

800 CYLINDER SLASHERS
Now at work in America alo

Patent and plain Spindle, Spinning and Twisting Frames, Spoolers, Reels and Circular Warpers, Cloth Folders, Size Kettles plain and Fancy Looms, Spindles, Flyers and Fluted Rolls.

SLUBBING AND ROVING FRAMES WITH LATEST AND BEST IMPROVEMENTS.

No. 40 WATER STREET, BOSTON, MASS



Openers, * Lappers, * Cards, * Drawing,

Slubbing and Roving Frames,

CARD CLOTHING, ETC.

Correspondence Solicited.

Send for Circulars.

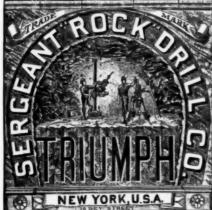


GANDY'S PATENT

GOLD MEDAL AWARDED NEW ORLEANS, 1885, FOR BEST RUNNING BELTS.

Made PERFECTLY Straight and any Length without Joints. For Main Driving it is the Best. Much Cheaper Than Leather.

THE GANDY BELTING CO., BALTIMORE, MD.



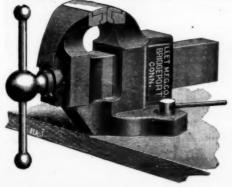
and NORWALK AIR COMPRESSOR

Are the Latest and Most Improved Machines that were ever designed for the work required of them. They are the Most Simple, Economical and Effective now known, and will satisfy all Purchasers.

Boilers, Steam Pumps, Hoisting Engines, Pipe and Fittings, Electric

Blasting Apparatus, Powder, Caps and Fuse, Steam and Air Hose, Wire Rope,

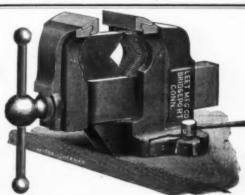
DRILL CO., 16 Dey Street, New York, U. S. A.



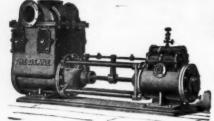
THE LEET M'F'G CO.'S

Patent Sliding Jaw Bench Vises.

C. D. LEET, Bridgeport, Conn.



THE DEANE STEAM PUMP CO., MOLYOKE, MASS.



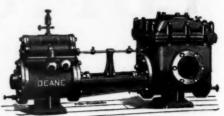
Every variety of Pumping Machinery

VACUUM PUMPS FOR SUGAR WORK, ETC.

IRRIGATION PUMPS ARE SPECIALTIES.

Water Works Pumping Engines for Cities and Towns.

SEND FOR NEW ILLUSTRATED CATALOGUE No. 22.





RENDROCK POWDER

MANUFACTURER OF THE INGREDIENTS BACKAROCK. IT CONTAINS NEITHER GLYCERINE NOR NITRO-GLYCERINE IN ANY FORM.

It Does Not Freeze. Can be shipped by express, railway or steamship lines. Neither of the two ingredients are explosive until combined, and when combined are safer than Dynamite. This explosive approximates Nitro-Glycerine in strength. Send for circulars to

RENDROCK POWDER CO., 23 Park Place, New York.



Over 14,000 in Use. Otto Gas Engine SOLOTOR

→Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started instantly by a Match, it gives full power immediately. When stopped, all expense ceases.

No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by insurance companies. UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes: 1 to 25-horse power.

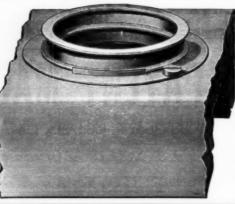
Branch Office, 214 Ran- SCHLEICHER, SCHUMM & CO., N. E. cor. 33d and Walnut Sts., Philadelphia.

DOUBLE ADJUSTABLE

Spinning Rings.

GEORGE DRAPER & SONS, HOPEDALE, MASS.

TELEGRAPH ADDRESS AND RAILROAD STATION, MILFORD, MASS.



| Number | Number of |
|-------------|--|
| of Rings | Rings sol |
| | for repairs |
| | |
| | |
| 38,648 | |
| 94,264 | |
| | |
| 168,382 | |
| | 963 |
| 185,319 | |
| 270,811 | |
| 215,214 | 3,309 |
| | 8,007 |
| 567,860 | 11,264 |
| 659,730 | 8,974 |
| 636,715 | 22,515 |
| 416,500 | |
| 319,869 | 25,105 |
| .119,592 | 12,118 |
| - | |
| | |
| 4,390,260 | 116,349 |
| mber in use | 4,273,911, |
| | of Rings sold. 6,025, 20,258, 38,648, 94,264, 117,301, 168,382, 223,924, 188,319, 270,811, 215,214, 336,918, 567,860, 367,175, 416,500, 319,869, 1119,522, 4,390,260 |

The great durability of our Rings is shown by the fact that we have more rings in use over twelve years old than all we have sold for repairs,

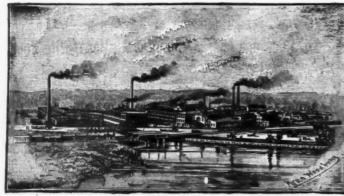
This statement shows unmistakably that a mill once supplied with our rings need think but little of the cost of repairs. As the number sold for repairs is an average of about twenty per cent. of the number sold the tenth year before, the average life of our rings will be at least twelve years.

Do not make the mistake of ordering new frames without specifying Double and Adjustable Rings. While they cost more to begin with, they are much the cheapest in the end, on account of their uniform excellent quality and unparalleled durability.

As an encouragement to use none but the best of Rings, we have decided to reduce the price on and after the first day of January, 1885, of those 15% inches or less in diameter, without holders and screws, to be used only to take the place of our rings worn out, to 12 cents each.

Washburn & Moen Manufacturing Co., Worcester, Mass.

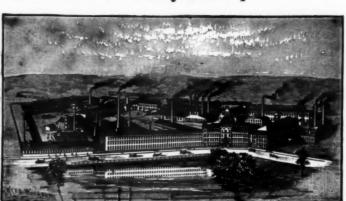
Wire Drawers, and Manufacturers of Iron and Steel Wire of Every Description.



ron and Steel Telegraph and Telephone Wire.

Patent Steel Wire Bale Ties, Pump Chains, Chain Wire, Steel Wire for Springs, Needles and Drills, Watch Main Springs.

Send for Price-Lists Circulars and Descriptive Pamphlets on Ou Specialties.



NEW YORK WAREHOUSE: 21 Cliff Street,

New York City

Best Fence Material in Use. For Sale by Special Agents and Hardware

CHICAGO WAREHOUSE: 107 Lake Street.

Chicago, Illinois,

Proof against Fire, Wind and Flood. Dealers in all Parts of the United Stat

BALTIMORE Manufacturers' Record.

Published Every Saturday by
BIGSBY & EDMONDS.
S. E. Etmonds. J. W. B guby. Wm. H. Etmonds.

R. H. EDMONDS, EDITOR.

---OPPICE

71 and 73 Exchange Place. Cor. Commerce St.,

-BALTIMORE.

New York Branch Office:
Room 6, No. 118 Fulton Street,
J. W. BIGSBY, Resident Partner.

SOUTHERN OFFICE, ATLANTA, GA.—

• I. W. AVERY, Manager.

JAMES L. ELY,

Advertising Agent for New York and Vicinity.

Room 14, 29 Park Row, New York.

d

Price of Subscription Per Year in Advance:

(POSTAGE INCLUDED.)
TO UNITED STATES AND CANADA, \$3.00
OTHER COUNTRIES, - - 4.50

ADVERTISING RATES:

| One | square (1. | 4 lines | Agate, | 1 inch |) 1 time \$ 1.50 |
|-----|------------|---------|---------|---------|---------------------|
| 66 | ** | 66 | 44 | 66 | 4 " 5.00 |
| 64 | 64 | 46 | 44 | 44 | 3 mos10.00 |
| 6.6 | as | 66 | 60 | 44 | 6 " |
| 84 | 41 | 44 | 44 | 6.6 | 1 year32,00 |
| For | advertisit | ig on | outside | pages | add 50 per cent, to |
| | | | he abov | | |
| Rea | ding Noti- | ces so | cents n | er line | each insertion |

BALTIMORE. AUGUST 29, 1885.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANU-FACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more.

As we have never seen any satisfactory proof of the proposed American Exhibition in London being backed by such support as to guarantee success, we have never in any way endorsed the project, and the MANU-FACTURERS' RECORD has on several occasions advised the people of the South to thoroughly investigate it before preparing to make any exhibits at it. If the statements in the Paris letter of the New York World, of last Sunday, are correct, our advice was certainly needed. Some of the Southern States have been discussing the spending of considerable money to make fine displays at this Exhibition, but we hope that before doing so they will see that the scheme has the proper management.

SINCE our last issue we have received a number of reports from the South regarding the outlook for the crops and the prospects for business. They all tell the same story of favorable indications for magnificent crops.

An Increase of 65,000,000 Bushels in the Corn Crop of the South.

In our last issue we published a special dispatch from the United States Commissioner of Agriculture stating that the statistician of the department estimated the probable increase in the yield of corn in the South this year over last year at 50,-000,000 bushels. We found, however, that the department in making up this estimate included Delaware as a Southern State and omitted Kentucky. Our idea, though, was to give the probable yield of the fourteen Southern States, Maryland to Texas both inclusive, and in sending a table showing the estimated acreage in each of these States for 1885 and 1884, and an estimate of the probable yield, Prof. Jas. R. Dodge, the statistician of the department, writes as follows:

"Your substitution of Kentucky for Delaware makes a material difference, as Kentucky is one of the largest corn States.

This tables gives you the relative acreage, (subject to slight modifications as to 1885.) The increase is five per cent. in area. The average condition is nearly 10 per cent. better—that is, instead of 91 on the average it is nearly 100. The prospect, therefore, favors about 15 per cent. increase. The last year's product was 433,000,000 bushels. The increase on the August basis would be 65,000,000 bushels (instead of 50,000,000 without Kentucky.")

The estimated acreage of corn in the South in 1885, as compared with 1884 is as follows:

| States. | Acres, 1884. | 1885, compared with 1884, Per cent. | Acres, 1885. |
|---------------|-----------------|---|-----------------|
| Maryland | 698,400 | 104 | 726,336 |
| Virginia | 1,938,391 | 107 | 2,074,078 |
| N. Carolina | 2,519,927 | 101 | 2,545,126 |
| S. Carolina | 1,444,020 | 103 | 1,487,341 |
| Georgia | 2,857,700 | 100 | 2,857,700 |
| Florida | 403,913 | 104 | 420,070 |
| Alabama | 2,322,885 | 100 | 2,322,885 |
| Mississippi | 1,889,600 | 103 | 1,946,288 |
| Louisiana | 865,450 | 107 | 926,032 |
| Texas | 3,752,700 | 108 | 4,052,916 |
| Arkansas | 1,757,710 | 109 | 1,915,904 |
| Tennessee | 3,245,082 | 110 | 3,569,590 |
| West Virginia | 594,115 | 113 | 665,409 |
| Kentucky | 3,258,410 | 109 | 3,551,667 |
| Total | 27,548,303 | 105 | 29,061,342 |

According to the foregoing figures, the corn crop of the South will this year be about 65,000,000 bushels more than last year, or 498,000,000 bushels against 433,000,000 bushels for 1884—by far the largest crop ever produced in the South. We would not be surprised to see even these figures increased when the crop is gathered.

In 1875 the corn crop of the Southern States was only 324,000,000 bushels against a probable yield this year of 498,000,000 bushels, an increase this year of 174,000,000 bushels. The South is steadily increasing its production of corn, and hence naturally of bacon, so that in a few years it will be comparatively independent of Western corn and bacon. For years the purchase of foodstuffs from the West has been an enormous drain upon the South, but year by year this is decreasing. An increase of 65,000,-000 bushels in one year shows what that section is capable of doing towards raising enough corn to meet its own requirements. There is still room, however, for much improvement in this direction, and we hope to see a still larger corn crop in the South next year.

Banking Capital in the South.

The statements that have lately appeared in the MANUFACTURERS' RECORD regarding the great need of more banking capital in the South, have received many strong endorsements from all parts of that section. It is felt by Southern business men that there must be a great increase in banking facilities or else business generally will suffer. Money to handle the South's enormous crops and for use in business transactions is pressingly needed. Upon this point the Barnesville, Ga., Gazette, after republishing one of our late editorials upon this subject, says:

The above article has our hearty approbation. No country can prosper financially that has to pay such exorbitant rates of interest as the South is paying and has been paying since the war. The rates of interest range from 15 to 40 per cent., and very few persons can possibly use money profitably at such a per cent.

Not only are high rates of interest charged in the South, but there is a great scarcity of money among us.

We need more banks. The supply of money to lend is not equal to the demand to borrow. There are many towns in the South doing from two to four million dollars' worth of business annually that have not more than one bank, and that often a weak one. The business interests of such towns necessarily suffer for lack of adequate funds. Not only do manufacturers and merchants suffer from this cause, but the farming interests suffer also.

Farmers have found that it is cheaper to borrow money, if they have no money of their own, and buy for cash, than to buy on a credit; hence they as a class need a great deal of money every spring.

Millions of dollars can be put out at interest annually in the South at ten or twelve per cent, with such securities as would make the lenders absolutely safe. This is a fine opportunity for capitalists to realize a splendid per cent, on their money, and at the same time materially aid those borrowing their money.

Instead of the South needing a hundred more banks we need a thousand more. Our crops are unprecedentedly large, we are entirely over the demoralizations of the war, factories of every description are springing up all over our Southland, an era of substantial, permanent prosperity is dawning upon us, and the interests of capitalists certainly demand that they occupy this inviting field at once.

N. T. Green & Co., Birmingham, Ala., will shortly issue a book of 200 pages, devoted to the history and present condition of that city. It will give much information of value to those interested in Birmingham and its wonderful growth.

TELEGRAPHIC reports from the South show that the cotton crop will in some limited sections suffer from the worms, in others from drought and in others from too much rain. The damages from this cause will not, however, we think materially affect the aggregate yield, which still promises to be much the largest on record.

the Baltimore Manufacturers' Record, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

What Manufacturers Do.

The importance to the South of developing manufactures, if for no other reason than the making of a home market for agricultural products, cannot be too repeatedly urged upon the attention of the people of the South. Before there can be general permanent prosperity among the agricultural interests of the South, there must be a large increase in the non-agricultural population of that section. These facts are plainly brought out by a recent article in the Nashville Union. According to that paper:

'The Roan Iron Company was formed and nenced work at Rockwood, Roan county, East Tennessee, in 1867. The furnace was put up in the forest, and on December 4. 1868, made the first casting of Tennessee Scotch pig iron, the first pig iron made in the South by the use of mineral coal as fuel. It had an output of twenty tons. This was subsequently remodeled and another furnace built, so that now the daily output is 100 tons of the best brand of Tennessee Scotch pig iron. At no time since first blowing in have both furnaces been out of blast, and they have invariably since first commenced made money. Prior to building the furnace, land there was worth from \$1 to \$7 an acre, country very sparsely settled, but little raising of crops or cultivation of fruit. The only market was Chattanooga and the country south of there; the only means of transportation was by river-the Cherokee, a steamboat of sixty tons, making two trips a week during the season of high water, being the only conveyance above Chattanooga. See the change made by this one plant. Now land is worth \$30 to \$100 an acre. business done caused the location of the Cincinnati Southern Railroad; then there are three loaded trains each day of metal, supplies and material. A village of 3,000 people has been built up, atl of whom have o be furnished with food and supplies from the country adjoining. There is a home market for everything that is raised and every farm product at prices as good as were obtained at the distant market, when most of the price was consumed in transportation; not only ordinary farm products, but chickens, eggs, fruit and all kinds of vegetables are made profitable. The heretofore worthless timber is becoming more and more valuable every year. When there is leisure time on the farm, instead of wasting it in idleness, or worse, there is constant and profitable employment for men and teams in hauling ore and material. The result of this enterprise has developed others, and the still larger plant at Dayton is the direct off-Each ton of pig fron represents then loaded ready for shipment the labor of ten men one day; 100 tons a day represents the labor of 1,000 men, with all those dependent on them for support looking to this one enterprise for a livelihood. All these are consumers and must be supplied with food, fuel and other necessaries by the farmers surrounding them. The labor is all home labor, the material home material and the profit home profit. This is one instance of the value of divisified industry."

THE Western & Atlantic Railroad, of Georgia have issued a folder giving the local time table of that road, which is probably the handsomest local time card ever issued by any railroad in the country. Mr. Jos. M. Brown, the general passenger agent of the road, Atlanta, Ga., is responsible for this work of art.

A FINE opportunity for the establishment of a soap factory is offered in the advertisement of "Oil Mill," under Business Chances.

The Founding of a Town.

Some weeks ago we mentioned the purchase by Dr. Clarke Whittier of 60,000 acres of land in Swain County, North Carolina, with a view to estab lishing saw mills, laying out a town, dividing large tracts of land up into small farms, &c. We now have a report of the inauguration of the town of Whittier, in a manner decidedly unique.

We have been informed that Dr. Whittier is a brother to the poet Whittier, though we cannot vouch for the truth of this, as we have no information on that point from the Doctor himself.

WHITTIER, N. C., August 19, 1885.

At a public meeting held by the citizens of Upper Swain Co., on the 19th of August, it was moved by S. W. Cooper and seconded by M. Zackeray, that Thomas Stallcup be chairman of this meeting, Moved by Clarke Whittier and seconded that we open operations here upon the principles of the Word of God, including all morality, and especially temperance and prohibition of the strongest form. Moved by J. M. Glance and seconded by W. A. Thomas, Jr., that the Rev. W. H. Cooper be asked to officiate.

Rev. W. H. Cooper introduced, offered the

following prayer God of our Fathers and our God, we are met to-day in thy great name on thy footstool to found a town to be called or known as Whittier. In founding which town we recognize thy gracious hand and in this formal way, most solemnly and reverently consecrate it to Thee and the welfare of our common humanity. For the sake of Thy Son, most graciously accept our imperfect service and grant to us and our town Thy signal favor, from generation to generation. May it have a world wide fame for religion, morality and temperance. May it never be destroyed by flood or flame. May it be free from epidemic and the noisome politician. May its widows never be turned empty away, or its orphans be heard to cry for bread. May no foul murder ever be committed on its streets, or its sacred soil stained by blood. May the wayfaring man find a lodgment here and lie down and repose in safety. May its pure atmosphere never be poluted by the poisoning fumes of intoxicating liquor or mothers' tears wept over inebriate sons within its corporate limits. May the early and latter rains descend upon it. May its gardens and orchards bring forth in abundance of the good things of life. May the voice of prayer and praise be heard in all its dwellings. May the poor and oppressed of earth find a refuge here. May it be the glory of our land and of mankind, God bless the founder thy servant our benefactor, may he long live to serve God and benefit mankind. The Lord give him purity of heart, sanity of mind, health of body and abundance of means, wherewith he may glorify God and bless men. As thou didst prolong the days of thy Hezekiah, so prolong his days. As thou didst give thy servant wisdom, grant him wisdom, and may his talents for usefulness increase more and more. May we appreciate his efforts and hold up his hands by our prayer and co-operation.

And we do not forget to thank thee for the concert of action on the part of all the proprietors of the soil of which the town is formed, and who are of like principles with the founder. Make us an humble, God-loving, God-fearing people. These prayers we offer in the name of Jesus our great high priest above, to whom with the father and the Holy Ghost be everlasting praise. Amen.

After the prayer it was moved, seconded and carried that a petition be circulated and consent obtained from all property holders within ten miles of Whittier, if possible, to knowing.

prohibit forever the sale of intoxicating On motion of Dr. Whitter it was resolved that "it is the sense of this meeting that the various enterprises undertaken here abouts meet our hearty co-operation and support in money and labor, and we invite all property holders as far as the town of Franklin, in Macon county, to the new Gap on the Smoky Mountains, on the Tennessee line, and the county of Swain, including the town of Charleston and all that part of Jackson county tributary to Whittier, to unite with us in the construction of a graded road to Franklin to the Smoky Mountains at the new and old gap; a double bridge across (best possible) the river here; a made and graded road from Whittier to the Oconee Lufty road; a graded road to connect Whittier with the road on the south-side Tuckasegee river to Charleston, and a graded road to mouth of Oconee Lufty; a graded road from Whittier to Quallatown-the shortest line, a road between the bridges on the north side of the river."

Clarke Whittier stated that he had secured from the best attorneys in the State a legal form whereby all purchasers of land in Whittier or in the 60,000-acre tract will agree that in case spirituous or malt liquors are sold, imported or manufactured for use, except as medicine or for arts, the owner shall surrender the land to Clark Whittier, or his legal representatives, on the tendering of the purchase money. THOMAS STALLCUP, Chairman.

A Wonderful Growth.

BIRMINGHAM, ALA., August 22, 1885. Editor Manufacturers' Record

The adjectives wonderful, great, astonishng, are misapplied ninety-five times out of every hundred they are used. Everything now spoken of or written about is said to be grand, etc. The Americans are nothing if not exaggerative.

But with a tenacity to truth I may be allowed to say of the growth of Birmingham, Alabama, that it is wonderful, astonishing, tremendous. The appellation "Magic City" is not a misnomer. In all that goes to make up a thriving city, Birmingham may justly be called "magical."

Birmingham is in Jefferson county, and lies in what is known as "Jones' Valley," which is some six miles wide. Iron, coal and limestone are so handy that it can be stated, without fear of contradiction, that most excellent pig iron can be made, is made, at a figure below twelve dollars per The writer knows of a foundry here which buys nearly all its pig at 10 and 11 dollars per ton. Coal is so common that in the winter time the farmers dig it out of their lots and bring it into town in their wagons, selling it at from \$1 to \$1.50 per ton, or from four to six cents per bushel delivered.

Three large railroads, the Louisville & Nashville, the Cincinnati Southern, and the Georgia Pacific, are the feeders. A Union Depot will shortly be erected. At present it is without this valuable necessity, but that need will soon be supplied. There are five iron furnaces-coke, one rolling mill, six or seven foundries, three or four planing mills, one cotton factory, etc., etc. The cotton factory is not in operation, and is shortly to be sold. With new management it can be made to pay respectable dividends.

The town boasts of several good church buildings, three or four banks, telegraph and telephone companies, one fine opera house, hotels, club rooms, a good water works, and good sewerage system, etc.

At the present moment 216 new buildings are going up.

Two daily newspapers, the Daily Age, norning, and the Chronicle, evening, give the natives their mental food.

The Florence is the leading hotel, and is first class in every particular. What Col. James T. Nixon and his estimable wife do not know about "keeping hotel" is not worth

The writer (an uninterested person, does not own a dollar's worth of real estate, nor anything in Birmingham outside of his, personal effects) knows of no point in the South which offers such inducements to investors as this Magical City of Birmingham. And I am told that all manufacturers desiring to erect buildings will receive excellent offers of building sites at most reasonable figures.

The low cost of iron and coal, and the nearness to all markets, North, South, East West, are, in themselves, sufficient reasons why any individual or firm seeking a location in the rapidly growing South should locate in Birmingham; destined to be, before many years, the largest city in Alabama and the most thriving in the South. The population to-day is between 19,500 and 20,000; in 1900 it will be sixty or seventy thousand. So prophesies FONT.

The Development of an Alabama Town.

CLANTON, ALA., Aug. 22, 1885. Editor Manufacturers' Record:

This letter is written from one of the 'coming towns" of Alabama. The place has made wonderful improvement during the past year, and is moving onward and upward with astonishing strides. Clanton is the geographical center of the State. It is high up in the invigorating hill country of Alabama, free from malaria and epidemic diseases. The water here is the purest and best to be found on God's green earth. The atmosphere is dry,-the soil being sandy and absorbing moisture very rapidly. is on the Louisville & Nashville Railroad. forty miles north of Montgomery.

A HOT WELL.

Recently a well was dug for the purpose of supplying a saw mill near our depot with At a depth of thirty feet water was water. reached, but the supply not being sufficient, the proprietor of the mill decided to go deeper. He stopped at the depth of fifty feet, for he found it impossible to go further, the stream of water reached at that depth being as hot as sheol seventy times heated. The water is not warm, but is hot, being 1620 Fahrenheit, which is two degrees hotter than the water of the famous Arkansas Hot Springs. An analysis shows that it possesses medicinal properties identical with those of the Arkansas springs. Bathing in and drinking the water has brought about a number of remarkable cures of paralysis, rheumatism, scrofula, &c., and the wonderful freak of nature has caused a boom in real estate in this vicinity. The well is fifty feet deep and has twenty feet of water. It is likely to prove a bonanza to the owner; and is bringing large numbers of the afflicted from all portions of the State to the town. Some of the cures effected have been wonderful. The proprietor will not sell a half interest in the well for less than \$25,000.

OTHER NOTES

In the vicinity of Clanton are a number of saw mills,-it being the center of a fine timber industry. In the county there are about twenty-five lumber mills, turning out at a low estimate about 300,000 feet of longleaf yellow pine lumber daily. Two and a half miles east of Clanton, Mr. T. M. Ternan has a small mill with a capacity of 4,000 feet a day. Near him Mr. E. H. Lowe has a mill somewhat larger. Near our depot Mr. S. A. Blassingame has a mill which is capable of cutting about 10,000 feet per day. L. B. Wells & Son, four miles east of Clanton, have a mill with a capacity of 10,-000 feet per day. Two miles north, Mr. J. F. Maull has a still larger one with a capacity of from 15,000 to 20,000 feet per day; and two and a half miles south Bivings, Duke & Co. have a large mill, which can turn out steadily about 30,000 feet of lumber daily. Several of these mills have planers attached, and all have dry kilns. At the depot we have a well-conducted planing mill, which is independent of the saw mills,

and dresses lumber for the smaller mills that have no planer. It is patent to any business eye that here would be a good location for a sash, door and blind factory, and it is not a little strange that one has not been establish-

Each of the enterprises mentioned above is doing well, and it can be safely said that they turn out the best quality of long-leaf yellow pine lumber found in the country. There is a great future ahead for the town and section. Capitalists are invited to "come and see" before investing.

W. H. L

He

rot

the

th

fer ha

rie

General McClellan's Enterprise.

General McClellan, according to a Texas paper, is utilizing in his old age some information which he acquired in his youth when in that part of the country as an officer in the regular army. In the spring of 1852 General McClellan, who was then a brevet captain, was ordered by Jefferson Davis, the secretary of war, to accompany an expedition that was sent out to explore the Red River of the South, the waters of which above Cache creek were unknown. From the Indians the War Department had learned that the rivers flowed beneath the sands of what was then known as the Great American Desert. Capt. R. B. Marcy led the ex-

On the morning of the 12th of May the party was encamped where the Wichita river flows into the Red. After cutting down the banks of this stream to allow the wagons to get down into it and make a ford, the expedition passed on up the Red river until they reached Cache creek. During the day they found the surface of the ground covered in places with detached pieces of copper ore which had been washed out of a Specimens of this ore were saved and afterwards analyzed in Washington. They were found to be very rich in metal At Cache creek, which flows through the southwestern part of the Indian Territory, the expedition remained in the camp until the morning of the 16th, and then proceeded 15 miles up stream. More copper ore was found, which proved to be, on chemical analysis at Washington, a new species, and which averaged 541/3 parts of copper to the 100. The Red river actually flowed through banks of almost solid copper ore at that place.

After 30 years General McClellan has organized a company, patented 36,000 acres of land, and begun to work this rich deposit of ore. His representatives say that the company can break even the present low price of copper by four cents, and yet have a bonanza richer than the Comstock. While copper is apparently all that the company proposes to mine for, it was not the only valuable find of the expedition. The 29th of May found them on the bank of Otter creek. In the hills through which this creek runs were found specimens of gold-bearing quartz, which led Capt. Marcy to make a casual examination of the washings of the creek. Several particles of pure gold were found in a few minutes. The soldiers had no time to go washing for gold, and everybody else in the country was just then trying to get to California; so this discovery passed unnoticed. As the gold is in Indian Territory, and no one has been near the place since except the Indians and cowboys, no rediscovery has been made.

Perhaps a less important but not a less interesting discovery was made on the return trip, when passing through the Wichita mountains, as they are called, although the highest rises only about 700 feet above he plain. That discovery was the finding of petroleum. It was found oozing from the foot of a precipice, and was described very accurately by the geologist of the expedition

If Northern Texas and Southwestern Indian Territory should become a mining region, one of the most beautiful parts of this country would be ruined in the eyes of herdsmen and sportsmen. Prairie and woodland

and rolling hills and fertile valleys alternate Herds of deer and antelope roam almost undisturbed over the flower-decked carpets of grass that are green almost the year round, while flocks of wild turkey and swarms of prairie chickens, quails and pigeons abound everywhere. To give zest to the chase an occasional congar is found in the thickets. The air is bracing. Springs of cool pure water bubble from the rocks among the hills. The soil is of wonderful fertility, and in every way this is the ideal happy hunting ground of the red man. It only needs a railroad or two and the influx of enterprising people to change it into the richest farming community as well as mining district in the State.

Advantages of Bristol, Tenn.

BRISTOL, TENN., August 21, 1885. Editor Manufacturers' Record:

As your correspondent, Mr. A. A. Hobson, has kindly introduced me to your readers through his article headed "Still Another Pittsburg of the South," published in your issue of the 22d instant, and you solicit correspondence "relating to the material interests of the Southern States," I am induced to call the attention of your readers, and particularly those who are looking for manufacturing sites, to the superior advantages offered by Bristol for a tannery, a hub, spoke and handle factory, iron furnaces, foundry and machine shop, and furniture factory, not to mention other manufacturing enterprises, for which the natural resources near and tributary to Bristol cannot be surpassed by any place on this continent. Even with our present limited railway facilities I am surprised that this point has been so long overlooked. With the prospect before us of soon getting four additional railroads, we invite all interested in starting new manufacturing establishments of any description in the South to visit our city and section of country and investigate the advantages here offered as to natural resources and facilities, accessibility to markets, climate, &c., &c., before locating.

ISAAC D'ISAY,
Late of Indiana.

THE Knowles Steam Pump Works have issued a "Revised 1885 Edition" of their illustrated catalogue, which is complete in every particular. It is printed in a very attractive manner and in the highest style of the art. It illustrates and describes numerous specialties that this company are manufacturing, many of which are entirely original with Particular attention is called to their Portable Boiler and Steam Pumps on wheels, illustrated on pages 14 and 15; Stationary Fire Apparatus, pages 18 and 19; Compound Condensing Mining pumps, pages 28 and 29; Sinking pumps, pages 30 and 31; Artesian Well pumps, pages 38 and 39; Condensers for Steam Engines, pages 52 to 55; Combined Air and Circulating pumps for Surface Condensers, pages 56 to 59; Vertical Wrecking pumps, pages 62 and 63; Vacuum Pumps for Sugar House Vacuum Pans, pages 64 to 71; Hydraulic pressure pumps, 78 to 81; Duplex Steam and Power pumps and Compound Condensing Duplex Engines for Water Works, pages 84 to 95. The last five pages of the book give much useful information and tables of value to Engineers and others. This catalouge will be sent free upon application to the Knowles Steam Pump Works, 93 Liberty Street, New York.

THOS. M. TAYLOR, of the Georgia Scale Co., Atlanta, Ga., has applied for letters patent for a new Railroad-Track Scale. He has sold two and is manufacturing others: It is a new device and is a good one. The scale is bridged over like a railroad bridge, and the platform is bisected for rails, which weigh either empty or loaded cars. The other part of the platform is perfectly solid, upon which dead rails may be placed at any distance beyond six inches from movable rails. This solid decking prevents all changes in balance from any causes what-ever. There is perfect protection from rain, snow, or accumulations of any kind.

Frech's Superior Power Punching Press.

The accompanying cut represents Frech's Superior Power Punching Press, which is made in three different sizes, the illustration showing size No. 2. The principal feature of this machine is an entirely new slideement. The connection rod from crankshaft to slide is one solid piece of forging with a metal-bearing inserted in its upper The lower end has a flattened V thread and passes through a steel ball socket. This ball socket is nicely fitted in the centre of slide and in running order, swings or turns in the slide according to the movement of the connection rod. In the ball-socket and towards the top, there is also a steel nut inserted, which on its upper side has a number of slots milled in, to receive a catch or lock. The nut is nicely fitted on the threaded end of the connection rod, which passes through both nut and ball-socket, being provided

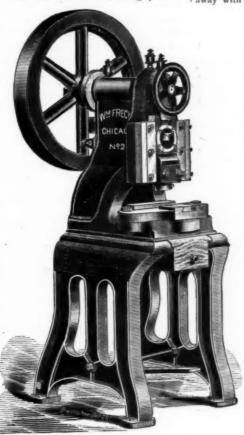


FIG. I-FRECH'S PUNCHING PRESS NO. 2.

vice will be seen at a glance, besides it is of

great durability, consisting of but three pieces

arranged in such manner that the pressure

is always right in the centre and in perfect

The frame of this press is of beautiful

design and very strong, forming on its upper

part a solid wall, opening toward the bed-

plate, and so forming a solid back and at

the same time a back open press. This ren-

ders it very convenient to feed the work

right through the press, or from and towards

the operator, which is in a good many instan-

sufficiently bent in on front, to allow the

operator to work with ease and to get as close

to the work as required. A drawer for catch-

ing punchings is attached right under the bed

and rests on projections of the legs. The

small hand-wheel in front of the machine is to more easily set the dies while the fly-wheel

The clutch on this press is also an entirely

new feature. It has no springs attached

whatever and consists of but two hardened

great saving of material. The legs are

harmony with the whole.

is in motion

wrench.

ries, sewing machine attachments, and novelties in general. The fly-wheel is 28 inches diameter, 4-inch face, weighs 325 pounds and makes from 100 to 125 revolutions per minute. The weight of the whole machine

The press is very substantially built, of good and accurate workmanship in all its details, and is manufactured by William Frech, 68 and 70 West Monroe street, Chicago, Ills.

with a number of holes to receive a pin or By adjusting the slide and setting the die all that is required to do is to raise the lock and turn the nut to the right or left, according to adjustment required, up or down. The is 1,500 pounds. simplicity and rapidity of this adjusting de-

The Atlanta Rubber Co.,

of Atlanta, Ga., is doing a good business in the South. They are jobbers of India rubber goods adapted to mechanical purposes; are manufacturers of leather belting and fire hose. They are agents of the New York Rubber Co. and for Hoyt's leather belting; also make and handle druggists' sundries, rubber boots, shoes, clothing-everything, in fact, in the rubber line. They keep in stock a large supply of all kinds of belting hardware, such as hooks, rivets, etc., etc. The house prides itself on its rapid filling of all orders.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for steel pieces,-a pin, in which a flat piece of one year, or six months for \$1.50.

steel is inserted, swinging on a pivot. By running the press, one end of this flat steel piece will engage while the other will disengage according to the movement of threadle and so render it a dead sure clutch with no springs to come out of order and no accidents. All parts of this clutch which come in contact with each other are hardened steel, and being very simple in its construction, its durability and excellence is assured.

The press is provided with glass oil-cups to keep dust and dirt from its bearings. The movement of the slide is usually I inch, but will also be made 1 1/2 and 1 1/2 inches, as may be required, and the adjustment is 1 14 inches. The press is also provided with a steel socket having a 1 1/4-inch square shank and %-inch hole to receive the punch. The bed-plate will take in dies from 1/2 inch to 5 inches wide, and is very convenient by setting dies. The opening in the press is 5x8 inches, and any kind of a bed-plate can be attached for larger work. This press does away with numberless inconvenient extra

tools to operate and adjust it. It requires but one solitary tool, which has the shape of a wrench on one end, and serves as a pin or arbor on the other. The machine is built with a view to an swer all purposes for light metal work. It can be run at a very high speed, and is especially adapted for the manufacture of hardware specialties, lock manufacturers, clock and watch facto-



frontispiece to the September number of The Magazine of Art. The picture is taken from the original in the Grosvenor Gallery, and is called "Who is it." Three girls are on the top of a house and one is peeping over the rampert to see who is coming. The design is a little out of Mr. Tadema's usual style, although it still portrays the classic maiden of ancient Greece. Another page picture is "Unvalued Liberty," from the original by Kaulbach-an old monk has opened the window of his cell to let a bird fly from its cage, but the bird prefers captivity with the old friar to liberty without him. " The Secret," from Mr. E. Blair Leighton's Royal Academy picture, is given another page. We have a monk in this too, a monk to whom a dying man is telling his secret in the hope of being forgiven. There is another paper on "The Dart," a river whose pictuqueness we are enjoying through the graphic pen of Mr. Arthur Blaikie and the clever pencil of Mr. Allan Barrand, Following this comes Mr. Austin Dobson with a paper on the Polish etcher-painter, David Chodowiecki, illustrated with reproductions from his copperplates. Curious old fashioned work it is; just the sort that Mr. Dobson knows how to describe. This in turn is folknows how to describe. This in turn is followed by Mr, Andrew Lang in a poem, "On Calais Sands," to which Mr. Seymour Lucas has given a page illustration. Cassell & Co., limited, \$3.50 a year.

MR. L. ALMA TADEMA contributes the

DR. W. T. BARNARD has the lead in the September "Popular Science Monthly," and opens an able and elaborate discussion on "The Relations of Railway Managers and Employes." This is an interesting branch of the great labor question, and presents many of its problems in a light especially favorable for critical study. Dr. W. G. Thompson considers "The Present Aspect of Medical Education," and gives much information and many valuable suggestions upon the subject. The "Insect Fertilization of Flowers" is an extremely interesting and beautifully illustrated article by the German botanist Behrens, and is full of nice points on this curious topic. Dr. Mary Putnam-Jacobi concludes her essay, "An Experiment in Primary Education," in the present number. "The Fauna of the Sea-Shore," by Mosely; Dr. Brehm's "Siberia and the Exiles": "How Spelling Damages the Mind," by F. A. Fernald, are readable articles; while that by Professor Langley, on "Sunlight and the Earth's Atmosphere," is a brilliant and striking performance. Dr. Ray Lankester makes report on "The Recent Progress in Biology"; J. G. Frazer exponds "The Primitive Ghost and his Relations," and Mascart contributes a most interesting article on "The Physiology of Color" of Colors."

THE most astonishing literary success of the day is Miss Cleveland's book "George Eliott's Poetry and Other Studies." It has had a remarkable sale; in six weeks it has run through ten editions and there seems to be no falling off in the demand for it. It is being translated into Russian, French and Italian. The most exacting critics have praised it. The New York Sun says of it

"Miss Cleveland's literary style is characterized by vigor of expression, abundance of imagery, and a certain rythmic quality that makes passages here and there read almost like blank verse. Her frequent use of figurative language, often in metaphors original conception elaborately wrought out, shows the power and scope of a fancy which a somewhat severe intellectual habit has not wholly restrained. * * * The problems of ethics, and disputed points of æsthetics, and the conundrums of history she grapples with eagerness; and whether we find her sharply challenging the opinions of a leading infidel, or subjecting to critical analysis the emotional side of Joan of Arc's

analysis the emotional side of Joan of Arcs character, we find her equally positive, aggressive and interesting."

The publishers announce that they will at once issue a subscription edition of the book. It will be illustrated, and will be sold exclusively by subscription. Price, \$2,00.

***CONSTRUCTION DEPARTMENT.

E PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

Industrial Progress of Two Weeks.

The last two weeks of the last month of summer, despite the usual dullness to be expected, have shown a remarkable activity in the organization of new industrial enterprises throughout the South. The splendid crops have imparted new life to business, and preparations are being made for great activity in industrial and trade circles, Among the most important enterprises reported by the MANUFACTURERS' RECORD during the last two weeks have been: In Alabama a \$300,000 company to build a large elevator storage warehouse and flour mill at Montgomery; a 200,000 bushel grain elevator; a company to develop a seaport near Mobile, construct a 28-mile railroad, build wharves, &c.; a furniture factory Calera; carriage factory at Eufaula; sash and door factory at Gadsden; foundry at Selma, and foundry and machine shop et Sheffield. In Florida a \$500,000 lumber company, an ice factory at St. Augustine and another at Tampa, and probably extensive additions to railroad machine shops at Palatka. In Georgia a cotton seed oil mill at Columbus will double its capacity; at Macon work has commenced on a large fertilizer factory; Atlanta is to have a large piano factory at a reported cost of \$75,000; a carriage factory has been organized at Elberton; a \$20,000 ice factory company at Savannah, and many saw mills flour mills, gins, &c. Kentucky has at Bellevue a \$20,000 light comp...y; at Greenup a spoke factory is going up; arrangements have been about completed for very extensive coal mining and shipping operations near Cloverport by English capitalists; in Louisville a \$100,000 railroad switch manufactory has been organized; at Crittenden contract let for a large flour mill. In Maryland there is a \$200,000 mining and milling company, a \$100,000 hedge fence company, \$200,000 being put into bottling works, building of a glass factory commenced, soapstone quarries and mill put into operation, three canning factories, a flour mill and a saw mill being built. Mississippi has a \$30,000 canning factory company at Mississippi City, a large canning factory at Handsborough, and at Grenada a compress is being erected. North Corolina is adding to her tobacco factories by new ones to be built at Winston and Asheville; in Wilmington a \$500,000 creosoting oil manufactory has been organized, and in the mining sections there are important developments. In Tennessee an extensive shoe factory, and possibly two, will be started at Nashville; preparations are being made to build a furniture factory in Maryville; a furniture factory is under construction at Rogerville; a marble quarry is being opened near the same place; an ice factory at Clarksville will be doubled in capacity; machine shops and planing mills at Chattanooga will be enlarged; a machine shop is to be started in Nashville, and quite a number of small enterprises throughout the State.

In Virginia a \$100,000 company has commenced the development of a granite quarry near Richmond, where from 200 to 1,000 hands will be given employment. The foregoing is merely a condensed summary of a few of the most important enterprises reported in two weeks only in our Construction Department. It shows something of the activity now prevailing in the establishment of new industries in the South, even during what is usually a dull summer month, and gives promise of what may be expected during the fall and winter.

ALABAMA

J. W. Carlin, Gadsden, Ala., will remove to Scottsboro, Ala., September 1st and put up a sash, door and blind factory.

A sash, door and furniture factory is to be established in Calera, Ala.

The Capital Street Railway Co., Montgomery, Ala., expect to increase their capital stock from \$30,000 to \$60,000.

Theo. Pruden, Eufaula, Ala., is building a carriage factory.

The Standard Gin and Machine Co., Montgomery, Ala., whose planing mill is reported in this issue as burned, will rebuild at once.

Iron ore land has been leased near Anniston, Ala., from A. R. Smith and Jones Cobb of that city. Lessee will probably mine ore largely.

C. B. Tyler, of Circleville, Ohio, contemplates moving his furniture factory to Montgomery, Ala., and adding to it a sash and door factory.

The Union Warehouse & Elevator Company, capital stock \$300,000, has been incorporated at Montgomery, Ala., with John R. Tyson, secretary, and F. H. Merritt, general manager. Will erect a warehouse to hold 20,000 bales of cotton and an elevator; also probably a cotton pickery and flour mill.

Work has been commenced on the furnace previously reported as to be built in Birmingham, Ala., by the Williamson Iron Co.

The contract which has been pending for some months between the Alabama Improvement Co., of Sheffield, Ala., and R. G. Hervey, of New York, regarding the building of the Sheffield & Birmingham Railroad has been signed, Mr. Hervey agreeing to commence work on the road at once.

Brooks, Tyler & Barker, Selma, Ala., founders and machinists, have purchased ground on which to erect a new foundry, 40 x100 feet.

Joel Bradley, of Anniston, Ala., and others, have organized a company to develop a gold mine in Cleburne county, Ala.

Mr. Eastman, Birmingham, Ala., is opening a coal mine 12 miles from that city, and will employ about 100 hands.

ARKANSAS.

C. M. Neel, Pine Bluff, Ark., is now putting three 20-ton presses into his cotton seed oil mill.

FLORIDA.

L. W. Hamlin, Cedar Keys, Fla., has put up machinery for making a combined wire and picket fence.

Thomas McMurray, Jacksonville, Fla., contemplates starting a carriage factory.

E. F. Joyce has completed a building in St. Augustine, Fla., where he will shortly put in machinery for manufacturing ice.

The proprietor of the Mayo Ice Factory, Sanford, Fla., will build a 10 ton ice factory in Tampa, Fla.; is now looking for machinery.

Wm. Davidson, Milton, Fla., is erecting a grist mill at Bagdad, Fla.

It is rumored that the St. John's Railroad Co. will extend their road from St. Augustine to Palatka, Fla.

GEORGIA.

The T. A. Snider Preserving Co. have lately established a fruit canning factory at Griffin, Ga.

A street railroad company is being organized in Athens, Ga.

The Macon Cotton Seed Oil Mills Co., Macon, Ga., previously reported as intending to build a fertilizer factory, have commenced on the building, which will be 200 by 125 feet,

J. T. DeJarnette, Eatonton, Ga., will, so it is stated, build a hotel at Oconee Springs, Ga.

Gaines & Lewis, Kingston, Ga., are enlarging their flour mill and putting in new machinery.

Bills have been introduced into the Georgia legislature to authorize the Anniston & Chattanooga Railroad Co. to build a road from the Alabama State line to the Tennessee State line, to incorporate the Columbus & Northern Railroad, the Athens & Jefferson Railroad Co., and the Darien Short Line.

Mattox & Hudgens, Elberton, Ga., are putting the machinery into their flour and saw mill.

The Elberton Manufacturing Co. has been organized at Elberton, Ga., to manufacture carriages, wagons, &c.

The Gorrie Ice Manufacturing Co, has been organized in Savannah, Ga., by H. D. Straton of Columbus, Ga., and others, to establish an ice factory in the former place. Paid in capital \$20,000.

McDanell & Maples have erected a large cane mill at Lifsey's Store, Ga.

It is reported that C. J. Finger & Co., Gainesville, Ga., will enlarge their steam shoe factory.

The Georgia Improved Piano Co., we are informed, will establish a large piano factory at Atlanta, at a reported cost of about \$75,000.

C. F. Stephens, Livingston, Ga., is building a ginnery; T. V. Sanford, same place, is rebuilding a ginnery and grist mill. Drewey Vaughn contemplates erecting a saw mill, and Flooker & Sanford have lately put up a saw mill.

John M. Edwards has erected a cotton gin near Milledgeville, Ga.

Andrew Campbell has sold the Arkwright Cotton Mill, Savannah, Ga., to George and William Campbell.

T. F. Lawson has established a basket manufactory at Athens, Ga.

A broom factory has been started in Atlanta, Ga., by A. P. Eskridge.

A saw mill and gin are to be erected at Creswell, Ga.

KENTUCKY.

R. S. McNay, Crittenden, Ky., previously reported as to build a flour mill, has awarded the contract for its execution to B. F. Lemmon.

Gleason & Gosnell, Louisville, Ky., who are working on the canal and harbor improvement, will soon put a large number of men to work, and will also operate a number of steam drills in removing stone.

The Curlin Switch and Crossing Co., has been organized in Louisville, Ky., capital stock \$100,000, to manufacture railroad switches and crossings by J. E. Reeves, H. D. McHenry, W. P. Semple, J. W. Baird, Geo. S. Allison, Wm. Semple and W. H. Johnson.

LOUISTANA

Saml. H. Buck and others, New Orleans, have organized the Exposition Railway Co., capital stock \$40,000; have awarded contract for building the road to Rogers & Ballentine, of New Orleans.

A. Denis, near Pointe Coupee, La., is erecting a steam gin.

MARYLAND.

The Co-operative Druggists Glassware Manufacturers' Association, previously reported as organized in Baltimore, Md., capital \$10,000, are erecting their factory at Mt. Winans, Md., and will employ about 150 hands.

S. B. Silver & Bro., Deer Creek, Md., whose canning factory was burned last week, loss \$6,000, are rebuilding.

Daniel Harvey, Wilna Mills, Md., will rebuild his flour mill and put in roller machinery.

The Furniture Workers' Union No. 6, of Baltimore, have decided to establish a furniture factory under the name of the Furniture Workers Productive Association.

Frank W. Redden, Greensborough, Md., is putting up a saw mill near Denton Bridge.

Richard S. Dodson, St. Michaels, Md., will erect an oyster canning house.

G. W. Tyler, St. Michaels, Md., previously reported as intending to rebuild his oyster packing house, lately burned (loss \$6,000) has commenced work on the building.

Gail & Ax, Baltimore, have commenced work preparatory to building a large addition to their tobacco and snuff factory.

Josiah Harp, Myersville, Md., is rebuilding his flour mill.

MISSISSIPPI.

J. D. Hayward, Herman Roehl and R. G. Bush, all of New Orleans, La., have organized at Mississippi City, Miss., the Gulf Coast Canning Co.; capital stock \$30,000, with privilege of increasing to \$50,000. The works, 45x100 feet, are nearly completed, and have been filled with the latest improved machinery for canning.

NORTH CAROLINA.

A large band saw mill is being erected in Waynesville, N. C.

Henry Behring, who received the contract to build a court-house at Monroe, N. C., having failed to give bond, contract has been awarded to I. T. Hart for about \$20,500.

Extensive preparations for gold mining are being made at Georgetown, N. C.

The Jordan Warehouse Co. has been organized in High Point, N. C., to build a brick tobacco warehouse 76x150 ft.

Reynolds Bros., Sunny Side, N. C., are preparing to enlarge their tobacco factory.

It is reported that J. C. Buxton will erect a hotel at Piedmont Springs, N. C.

G. F. Lancaster is erecting a saw and grist mill at Vanceboro, N. C.

B. M. Perrow, Asheville, N. C., is preparing to establish a tobacco factory.

Andrew Smith, Ludwig Hansen and others, Wilmington, N. C., have organized the Carolina Oil & Creosote Co., capital stock \$500,000, to manufacture creosote oil and preserve wood by patented processes. The present works of Hansen & Smith will be made the basis of operations for a while.

LOCKWOOD, GREENE & CO.

MILL ENCINEERS

Office, 65 Westminster St., Providence, R. I.

Carefully prepared plans, specifications and estimates furnished for the construction, equipment and organization of new mills and the revision and improvement of old, The North State Gold and Copper Mine, office Baltimore, Md., will push the development of their gold mine in North Carolina.

SOUTH CAROLINA.

J. A. Oldham, Greenwood, S. C., reported as contemplating building a cotton seed oil mill, has abandoned the idea. Mr. Oldham has lately put up a ginnery, and a mill for grinding cotton seed for fertilizers.

A sash door and blind factory is being put up in Blackville, S. C.

It is rumored that a cotton seed oil mill will be built at McCormick, S. C.

J. P. Smith, manager of the Manganese Mining Co., McCormick, S. C., will enlarge mining operations.

TENNESSEE.

The Sweetwater Mills Co., Sweetwater, Tenn., whose flour mill was burned some months ago at a loss of about \$30,000, have commenced rebuilding.

Walter Bros., Dover, Tenn., have just put up a grist mill.

Bowling Bros., Clarksville, Tenn., will double the capacity of their ice factory, put in new machinery, &c.

N. C. Boyd, previously reported as having purchased a site in Maryville, Tenn., on which to erect a furniture factory, is preparing to commence work on the building.

Negotiations are pending for the establishment of a pottery in Jackson, Tenn.

Halls, Ordway & Mitchell, Nashville, Tenn., will establish a shoe factory; will shortly purchase machinery sufficient to employ 300 hands.

Willingham & Co., Chattanooga, Tenn., will enlarge their planing mill by the erec tion of an additional building.

Goodall, Fite & James, Nashville, Tenn., contemplate establishing a shoe factory.

Truxall & Dunnemeyer of the Enterprise Machine Works, Chattanooga, Tenn., will erect a new brick building 100x140 ft.

John Wilson, Dyersburg, Tenn., it is reported, will build a cotton seed oil mill,

\$20,000 has been subscribed for the building of the new street railroad in Knoxville, Tenn. M. E. Thompson is at the head of the company. It has been organized as the Mayberry & Bell Avenue Street Railroad Company.

E. W. McKennon has leased and is repairing the Cross Mills, Mount Pleasant, Tenn.

A. P. Smith, John A. Campbell, G. W. Fuller, J. H. Bragg, John A. Moon, W. M. Wilhoit and S. P. Ashley have incorporated in Chattanooga, Tenn., the Chattanooga & Mission Ridge Street Railroad Co., to build a street railroad from Chattanooga to Mission Ridge, Tenn.

There is talk of a company being formed to open and develop stone quarries near Chattanooga, Tenn.

The Three Forks Flouring Mills, Staley, Tenn., are being repaired.

Hughes & Morton have erected a large distillery five miles from Hillsboro, Tenn.

The Turley Mill, Cog Hill, Tenn., has been sold to N. B. Dunn.

The addition of machinery for the manufacture of railroad spikes, is being considered by the Lookout Iron Co., A. M. Johnson, President, Chattanooga, Tenn.

The Columbia Cotton Mill Co., of Columbia, Tenn., are putting some new machinery into their Laurel Hill Cotton Factory.

TEXAS.

A large elevator will probably be built in Dallas, Texas.

The Beaumont Iron Works, Beaumont, Texas, will erect a large addition to their foundry.

The \$75,000 to be raised in Fort Worth, to assure the building of the Fort Worth & New Orleans Railroad has been secured.

A. B. Williamson, Palestine, Texas, proposes to build a flour and meal mill.

A stock company has been formed to supply Pecos City, Texas, with water.

Brainard Rorison, secretary Jenny Electric Light Co., Indianopolis, Ind., is in Sherman, Texas, negotiating to put an electric light plant in that city.

A court-house and jail will probably be erected at Pecos City, Texas.

The editor of the Citizen, Glen Rose, Texas, is corresponding with a paper manufacturer, with view to having a paper mill started at that place.

VIRGINIA.

The office of the National Granite Co., reported last week as having commenced the development of a large granite quarry near Manchester, Va., is 312 Stock Exchange Place, Philadelphia.

Lutz & Handly, Lewisburg, Va., have lately established a flour mill.

Frank Lyman, 130 Water street, New York, previously reported as having purchased the old "Dolly Ann" Iron property in Virginia, will shortly commence mining operations; price is reported at \$30,000.

J. W. Stipe has overhauled and repaired his Rowland Flour Mill at Brucetown, Va.

Rohr & Hile, Harrisonburg, Va., have established a brick yard.

WEST VIRGINIA.

B. W. Peterson, Wheeling, W. Va., has prepared plans for water works in Wellsburg, W. Va., to cost \$25,000. Mayor of Wellsburg can give particulars.

The American Brick Paving Co., of Charleston, W. Va., has been incorporated.

Henry S. Walker, Secretary Board of Public Works, Charleston, W. Va., will receive bids till September 11 for the erection of an \$85,000 school building.

J. V. A. Fowler, East Liverpool, Ohio, writes that a company in that town desire to establish a stoneware pottery in the South.

BURNED.

Distillery of Thomas & Royster, Harrods Creek, near Louisville, Ky.; loss \$5,000.

Saw mill of C. Hadder, Blacks & Whites, Va., wrecked by boiler explosion.

Planing mill of Standard Gin & Machine Co., Montgomery, Ala.; will rebuild at once.

Tobacco factory of W. A. Archer, Spring Hill Academy, Tenn.

The lumber mill of W. T. Fagan, fourteen miles east of Texarkana, Ark. Loss \$1,800

J. W. Harrell's gin house, near Clinton, La.

A \$300,000 Elevator Co.

MONTGOMERY, ALA., Aug. 24, 1885. Editor Manufacturers' Record:

The Union Warehouse & Elevator Co. has been incorporated here with a capital of \$300,000, and have organized with Mr. F. M. Gilmer as president, Mr. John R. Tyson, secretary and treasurer, and F. H. Merritt as general manager. The company will be ready for work by 15th September, 1885.

Another evening paper to be issued here about 1st October, 1885, by Thos. B. Stubbs, now publishing the Monday Herald. Everything is booming here. WATTS & ROGERS.

Will Rebuild Planing Mill.

Montgomery, Ala., August 24, 1885. Editor Manufacturers' Record:

We were burned on the 19th; building and machinery total loss; insurance ample to cover; lumber yard saved. Have commenced to rebuild, and expect to be at work again inside of 30 days, with new and improved machinery.

THE STANDARD GIN & MACHINE CO.

A Big Granite Quarrying Co.

PHILADELPHIA, PA., August 19, 1885. Editor Manufacturers' Record:

Our company was organized in June, 1884, under the laws of the State of Virginia, with a capital of \$100,000. We own upwards of 100 acres of land on the James river, opposite the city of Richmond, Va., on which is a developed granite quarry with a breast now open, 20 feet in depth by 200 feet in length. This property was originally known and worked as the "James River Granite Quarry." The quality of the granite is pronounced by experts to be among the best found in any section of America, being entirely free from all imperfections and streaks. The State, War and Navy Building, Washington, D. C., is built from this granite, and that building is acknowledged to be the handsomest granite structure in this country. We have 2,000 feet water front on the James river and the opening of the quarry is within 100 yards of our wharf; so that, being on tidewater, we have unexceptionable transportation facilities. In addition, we control another wharf in the city of Richmond.

The demand for our granite for building and monumental work is already large and rapidly increasing. We have all the machinery and equipment at the quarry necessary for operating and shipment, including large derricks worked by steam, engine, pumps, &c., and all the modern improvements for quarrying purposes. We have several dwelling-houses on the property for the superintendent and the quarry hands, workshops, offices, &c. We intend shortly to have our own vessels for transporting. Major C. P. E. Burgwyn, government engineer of the James river improvement, is officially connected with us as consulting engineer. Mr. T. O'Reilly, formerly of New York, who has had 30 years' experience in the granite business, is superintendent at the works. Preference will be given to Richmond labor in employing hands, and to the conservation of the interests and prosperity of the city of Richmond in every way possible. FRED. N. GARROD, Prest.,

312 Stock Exchange Place.

New Mills at Livingston, Ga.

LIVINGSTON, GA., August 19, 1885. Editor Manufacturers' Record:

I noticed in your last issue that you invite the people of the South to give the general spects of the crops in the South. I don't hink I have ever seen better prospects than those of this year. The people are all in high spirit, and many of them are making wonderful changes in business. W. G. Foster & Bro. have bought out the Thomas Flouring Mills near this place, and have been spending the summer in repairing and putting in new machinery. They have about completed the work, and the mills are doing a fine business. C. F. Stephens is putting u a new steam ginnery at Livingston; Mr. T. V. Sanford, near this place, is building a new steam ginnery, with a grist mill in c nection, which will be completed soon; Mr. Drewey Vaughn contemplates erecting new saw mill near here; Flooker & Sanford have their new saw mill in operation at this place. There are several new buildings here.

F. B. THOMAS.

G. L. G.

Sash, Door and Furniture Factory.

CALERA, ALA., August 21, 1885. Editor Manufacturers' Record:

A sash, door and blind factory, including also the manufacture of furniture, hubs, spokes, and wagon material generally, will be built at Calera in a short time The projectors have ample capital and will make a grand success of the enterprise. There is no better point in the South for such a factory, as timber of every kind, both hardwoods and yellow heart and curly pine, are easily obtained. Calera is growing rapidly.

A New Brick Yard.

SHEFFIELD,

COLBERT Co., ALA., Aug. 19, 1885. Editor Manufacturers' Record:

The "Iron City Brick Works," of which I am secretary and treasurer, will begin the manufacture of plain and pressed brick about the 1st prox. Maximum capacity 40,000 every 10 hours. Will mould the brick from watered clay tempered exactly the same as potters' clay. My company will use the improved Sword machine, with crusher, carriers, represses, and every modern appliance for making strong and perfect brick.

C. W. BARNETT, Sec. and Treas.

To Enlarge Ice Factory.

WILMINGTON, N. C., Aug. 20, 1885. Editor Manufacturers' Record:

It is our purpose to enlarge our ice factory this winter, but to what extent we have not yet decided. WM. E. WORTH & CO.

Will Help to Establish Factories.

MONTGOMERY, ALA., Aug. 22, 1885. Editor Manufacturers' Record:

The rumor that Calera Land Co. would erect an iron furnace and cotton-seed oil mill was unauthorized. We, however, stand ready to encourage and assist in the erection of any and all kinds of manufacturing enterprises at Calera.

J. R. Adams,

Vice-President and General Manager.

A Sash and Door Factory.

GADSDEN, ALA., August 17, 1885.

Editor Manufacturers' Record:

I will remove to Scottsboro, Ala., September 1st. Will put up a large sash, door and blind factory. Building is 25x100 feet, 2 story, all iron. Can't say what the cost will be yet.

J. W. CARLIN.

West Point's Mills.

WEST POINT, MISS., August, 20 1885. Editor Manufacturers' Record:

We have a cotton-seed oil mill—a large fine 2½-story brick building right at the crossing of the Mobile & Ohio and the Illinois Central (Aberdeen division); with the very best machinery. We have two grist mills and cotton gins. One a large frame building, the other a two story brick about 40x60 feet. This mill has all the latest improved machinery for grinding corn and ginning cotton. Owned by Davis & Carothers. Also a cotton compress.

L. T. CARLISLE.

A Piano Factory for Atlanta.

LELIATON, GA., August 21, 1885.

Editor Manufacturers' Record:

The Georgia Improved Piano Co. began with a view to erecting their factory here, but have decided to change the plant to Atlanta, Ga. Their factory and machinery will cost \$75,000, and they have two of the firm North at present making necessary purchases. They are having two fine instruments in course of completion at Boston, Mass., and will put them on exhibition South.

J. DELAUGHTER:

Grenada's Compress

GRENADA, MISS., Aug. 22, 1885. Editor Manufacturers' Record:

I have bought and moved the Jackson (Miss) Compress Company's compress to this place. It will be put in excellent shape and do good work. Rapid progress is being made in erecting compress. A bank and other developments are sure to follow.

FRANK B. NICHOLS,
Prest. and Genl. Manager
Grenada Compress Co.

An Alabama Seaport.

MOBILE, ALA., August 20, 1885. Editor Manufacturers' Record:

The Dauphin Island Improvement Company has secured Dauphin Island, at the mouth of Mobile bay. The company is now surveying the island, and will begin making improvements with the view of making the island a seaport for the exportation of coal, iron, grain, cotton and timber; also with the view of connecting by direct rail route the Gulf of Mexico with the great trunk lines running North and West. John Mahon,

Sec'y Dauphin Island Improvement Co.

A Heavy Business.

CHATTANOOGA, TENN., August 21, 1885. Editor Manufacturers' Record:

We have just completed a new warehouse—connected with our old one—which is 50x 80 feet, 2 stories, and have added new machinery and improvements to our factory building. An outlay altogether of \$2,500. We have had the largest August business we ever enjoyed, and prospects very flattering.

Temple & Shipp.

The Kentucky Coal Mines to be Opened by English Capital.

LOUISVILLE, KY., August 21, 1885. Editor Manufacturers' Record:

Our arrangements are about concluded, but cannot as yet give you particulars.—
Our iron and engine have arrived at Cloverport, and the track will be laid at once. The mines will be opened as soon as possible thereafter.

WM. JOHNSTON.

Opening a Coal Mine in Texas.

LAMPASAS, TEXAS, August 18, 1885.

Editor Manufacturers' Record:

We have without doubt struck a very extensive coal field. The out crop promises very good, and the coal is, what found in croppings, of far better quality than any yet found west of the Mississippi, with the exception of Canyon City, Col. The work is being done as a private venture, and not having driver drill, the work of development is slow. Not able to give positive data as yet. Are pushing work as fast as can. Sinking shafts at different points.

GEO. L. FRANKLIN.

Rebuilding Canning Factory.

DEER CREEK, MD., August 21, 1885. Editor Manufacturers' Record:

We are rebuilding our canning factory now, 40x60 feet, 8 feet to square. Hope to begin operations on the 24th.

S. B. SILVER & BRO.

Albany's \$18,000 Compress.

CINCINNATI, O., August 20, 1885. Editor Manufacturers' Record:

We are putting into Albany, Ga., one of our compresses. Will be in operation about 1st of September next. Cost put up ready to run \$18,000.

CAMPBELL COTTON COMPRESS CO.

A Soapstone Quarry.

MARRIOTTSVILLE, MD., August 20, 1885. Editor Manufacturers' Record:

We are working the old Maryland Soapstone Quarry; also put up a saw mill, and sawing it into slabs, and about putting in machinery for making register borders and fire-place linings. RALSTON, WELDY & CO.

REYNOLDS, GA., August 20, 1885. Editor Manufacturers' Record:

I am at work on a steam gin; will be ready for work by 1st September.

P. E. McDaniel.

MINING NOTES.

By BRUNER & EAMES, Salisbury, N. C.

KING'S MOUNTAIN GOLD MINING CO.

The King's Mountain Gold Mining Co. has been reorganized, with Prof. J. C. Horton as president and st perintendent, He is now at the mine, near King's Mountain sta tion, on the A. & C. Air Line Railroad, and is engaged in working some of the surface The main shaft is over 300 feet deep and has a fine vein of quartz in limestone, sometimes having a width of 15 feet. The ore is of a grade that will pay well if the proper mode of treatment and management is used. At present they employ about 25 or 30 hands. They are figuring on a large steam pump of sufficient capacity to drain the main shaft. They have a 40-stamp mill, or, we should say, the remains of one, as parts of it have been taken from the mine during the late litigation, all of which will be replaced when it is deemed expedient. The mine produced \$80,000 one year when in full operation. John Mackey, the bonanza king, was at one time a stockholder in this property. THE HIDDENITE MINE.

Prof. W. E. Hidden, of Newark, N. J., is engaged in reopening his renowned "Hiddenite Mine," near Stony Point, in Alexander county. This mine is the only known locality in the world producing the precious gem "Hiddenite."

SHUFORD GOLD MINE.

The Shuford Gold Mine, situated in Catawba county, is owned by W. A. Sweet and others, of Syracuse, N. Y. The superintendent was in Salisbury not long ago obtaining estimates from Bruner & Eames on the sinking of a 300-foot shaft. If the company conclude to do this they will require large hoisting and pumping machinery. At present they have a large hydraulic outfit, with a Frazer & Chalmers' 5-stamp mill. The address is "Hyser, superintendent of Shuford Gold Mining Co., Catawba P. O., N. C."

GOLD HILL MINE.

Gold Hill, Rowan county, consists of a mine 750 feet deep, with 20-stamp mill, saw mill and other machinery; also 1,140 acres land, the value of which is \$250,000. Employ 10 hands at present.

HOOVER HILL GOLD MINE.

Hoover Hill Gold Mine, Randolph county, (Wm. Freschville, superintendent,) is 250 feet deep. They own about 300 acres of land, a 20-stamp mill, with pumping and hoisting machinery. They have produced since 1883 over \$100,000 in gold, and are now on a better paying basis than ever, with a year's ore in sight. Employ 80 hands.

RUSSELL GOLD MINE,

The Russell Gold Mining Co. own the mine of same name in Montgomery county, Eldorado P. O. They have at least 200,000 tons of low grade ore in sight, with about 400 acres of land, valued at \$200,000. Employ 50 hands,

The Gold Hill, Hoover Hill and Russell are all owned by English capitalists.

KING'S MOUNTAIN TIN MINE.

The King's Mountain Tin Mine, owned by Dr. Dabny, State chemist, Raleigh; Judge Avery, of Morgantown, and Capt. Bell, of King's Mountain, will shortly resume work, when it is expected they will ship the ore to England, as they have received an order for a lot of it.

CAROLINA IRON MINING CO.

Mr. W. A. Mauney, a merchant of King's Mountain, writes as follows: "The superintendent of Carolina Iron Mining Co. was here a few days ago, and they expect soon to commence shipping their fine iron ore North. They have 200 tons or more raised ready for shipment." They have 500 tons of copper ore on the dump at the Elk Knob

Copper Mine, and a smelter nearly completed. For some reason they are idle.

HAILE GOLD MINE.

The Haile Gold Mine, P. O., Haile's Gold Mine, Lancaster county, S. C., employs about 100 hands. The mine is in a very prosperous condition and has been for the past four years, producing at one time as high as \$10,000 per month. Mr. E. Gybbon Pilsbury is the superintendent.

Mr. W. H. Clarke, of 340 Shawmut avenue, Boston, Mass., is at the Central Hotel, in Charlotte, N. C. He was formerly connected with the Rudisill Mine at that place, paying \$20,000 cash for an interest. He is looking about the State with a view to finding good mining property, on which he proposes to put up mills.

PHOSPHATES.-The phosphates of South Carolina were long known to geologists, but their commercial value was not recognized till 1867; since then immense quantities have been raised. The deposit is found in beds of rough masses or nodules, associated with fossil bones and teeth in the creeks and rivers, and on the low lands running parallel to and from 10 to 50 miles from the coast. The nodules contain on analysis from 55 to 61 per cent. of tricalcic phosphate, and 5 to 11 per cent. of carbonate of lime, with some other unimportant constituents. The phosphates are used for the manufacture of artificial fertilizers, of which they form the basis, and are largely consumed at home and abroad. The phosphate industry of South Carolina has already assumed astonishing proportions, but it is nevertheless still in its infancy. There are at present in operation in the State 14 land mining companies, 11 river mining companies, and 11 fertilizer compa-There have been mined and shipped (1868-84) 2,699,000 tons of phosphate rock, equivalent to about \$16,000,000; there have been manufactured (1871-84) 2,000,000 tons of fertilizers, equivalent to about \$34,000,000, giving a total of \$50,000,000, which has been brought into the State by the phosphate industry in the last 17 years. Of this amount the State has received as revenue \$1,200,000, which was paid as royalty, besides the heavy taxes levied on the products of the land companies, and fertilizer manufacturers. The production of phosphates for 1884 was 409,000 tons of rock, and 236,884 tons of fertilizers.

Among the recent improvements worthy of note in the South is the establishment of winter resort at Interlachen, Putnam county, Florida. It is situated on the Florida Southern Railroad, and although it is hardly three years since the enterprise was started by cutting the first tree of the forest, it is now a lively town, and boasts of four general stores; one drug store, a saw mill, a planing mill, a cotton gin and a select society of Northern citizens who aim to make it an economical resort, free from dissipations and exactions of fashion. There are two commodious hotels, and several boarding houses, and considerable sums are already subscribed toward the establishment of an academy where families will find educational facilities for their children corresponding to the Northern schools. The enterprise is under the management of the Interlachen Winter Resort Co., Springfield,

THE Standard Silk Co. are to erect a mill at Phillipsburg, N. J., 256 feet long and 54 feet 8 inches wide, three stories high and basement; also a boiler-house and chimney. Plans have been made by Messrs. Lockwood, Greene & Co., mill engineers, Providence, R. 1.

THE Curtis Regulator Co., of Boston, Mass., has just finished a large Pressure Regulator for the Water Works of the city of Moscow, Russia.

Going to Advertise.

In spite of the not any too favorable state of the watch trade in Switzerland, some new factories have recently been establishedone in Breleux, another in Tramelan, and a third in the Canton of Lucerne. The Swiss are waking up to the importance of advertising. A convention recently held at Chaux de Fonds, for the purpose of discussing this question principally, decided that advertising, and especially advertising in English and American papers, was a necessary and indispensable requisite to the watch trade of Switzerland. It was also "resolved" that the American factories owed the largest proportion of their success to their advertising. as the Swiss manufacturers could plainly see by tracing effects to their causes .-- Jewelers' Iournal.

THE first number of the new Southern magazine, "Dixie," has been received. It contains a poem—"The Land of Dixie"—by Mrs. Elizabeth Winslow Allderdice; an article on "The Natural Resources of Georgia," by Col. I. W. Avery; "The Great Tariff Issue," by Saml, Noble; "Bits of Virginia Scenery," illustrated, by Clement Mason; "The Forest Wealth of Dixie"—first paper—by Charles H. Wells, and other matter of interest. Its special departments are: "Editor's Department," "Dixie's Resources," "Dixie's Development," "Current Notes," "Humor—Illustrated and Typed." "Dixie" is conducted by the Dixie Company, of Atlanta, under the editorial management of Mr. Charles H. Wells.

There is need of a Southern magazine of high order, and it is to be hoped that "Dixie" may be able to meet this want. The publishers should, however, before issuing the next number, discard the present cover, the most prominent features of which are a Florida swamp scene, a negro and a mule.

JOSEPH F. JOHNSTON, Wm. A. Walker, Jr., E. W. Rucker, H. M. Caldwell, Ed. Linn, A. B. Johnston, Fred Sloss, E. M. Tutwiler and others, of Birmingham, are organizing stock company to open up a stock farm about five miles from that city. They have selected a charming location containing 1,600 acres for which they are to pay \$25.00 per acre. The farm is to be stocked with horses, cattle, hogs and sheep. Capital stock, \$75,000.

BUDDEN & Son, lithographers, Atlanta, Ga., have purchased a new Hoe press, a large number of new stones, etc., and are moving their establishment from the corner of Loyd and Alabama streets to a more substantial building on Wall street. These additions to their already large stock will cost \$7,000.

Mr. A. H. KIRKLAND, of Jackson, Miss., writes us: "I have extensive plow and implement works here. Have put in new boiler this year and am now putting in other improved wood-working machinery. I want to move to Florida and will sell my place and business. No better business or locality can be found for any one wishing to invest in manufacturing."

THE Dunnell Manufacturing Co., of Pawtucket, R. I., are to erect a building 272 feet long by 64 feet wide, two stories high and basement. Plans of building and arrangement of power and machinery are being made by Messrs. Lockwood, Greene & Co., mill engineers, Providence, R. I.

ADVERTISERS wishing to reach manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the BALTIMORE MANUFACTURERS' RECORD. We are always prepared to furnish proof of our claims as to circulation.

The Stiles Central-Swing Press.

The accompanying engravings show some recent improvements in presses for sheet metal work, made by the Stiles & Parker Press Co., Middletown, Conn.

tension is changed. In this press the movement is from a center coincident with the axis of the shaft, and hence no matter to what angle the bed is swung, the belt tension is always constant. This of itself, will be recognized as an important feature.

shaft carrying a worm; this worm engages a segment of a worm wheel whose center is in the axis of shaft. Turning the handle swings the press in or out as desired, and as the segment will not drive the worm, it will remain wherever placed without fastening. The

swinging being so simple a matter, it naturally follows that in use, the adjustment will be the most advantageous one for the work being done and that this simple adjustment will greatly facilitate work where changes must be often made.

In any adjustment that may be made, the treadle and stop motion are not disturbed, but are always in proper connection. The form of the frame, it will also be noticed, is such that there are no legs or projecting parts in the way of the operator with the bed swung to any angle. The shelf, for holding a box to receive the work as it drops from the die, is adjustable to any height desired.

It will be understood that the strains due to working do not come upon the frame or supporting part of the press. In the engravings the circle next outside the shaft is the boundary of the part of the bed, or press proper, which extends through the frame,

and in which the shaft revolves; all strains are thus brought upon this part of the press, instead of any thrust being transferred to the frame, which simply serves as a support for the working parts.

The adjustment used in this press admits of the pitman filling the whole space between the bearings, thereby securing to itself a long bearing and adding strength and stiffness to the press.

The press when set on the incline, as represented in Fig. 1, is intended for work cut and formed in one operation, and facilitates the removal of the work from the die; when set level, as shown by Fig. 2, it is adapted for all work usually done on presses.

"How to Raise the Wind."

By writing to "The Atlanta Wind Engine Co.," Atlanta, Ga., you will find out. This concern manufactures wind engines and pumps, railroad and reservoir tanks, etc. Their wind-mills are common throughout Georgia, Alabama, North and South Carolina, and their products are beginning to be known in other of the Southern States.

The old-fashioned well is giving way to the wind-mill water-works rapidly, and will soon be "among the things that were."

No farm, residence, hotel or institution of any kind need be without a plentiful supply of water any longer.

Then this company make geared windmills for driving machinery, pumps, etc.; also make the "Eclipse" grinder, which grinds corn, etc., rapidly. To these geared wind-mills they have wood-saws, corn shellers, which can be attached, and thus much accomplished with little labor.

Write for circulars, plans, estimates to Atlanta Wind Engine Co., Atlanta, Ga.

ADVERTISERS wishing to reach the manu facturers of all classes, mining companies, steel, iron and hardware dealers of the steel, iron and hardware dealers of the entire South, cannot find a better medium than the BALTIMORE MANUFACTURERS' RECORD. We are always prepared to furnish proof of our claims as to circulation.



FIGURE I-ON THE INCLINE.

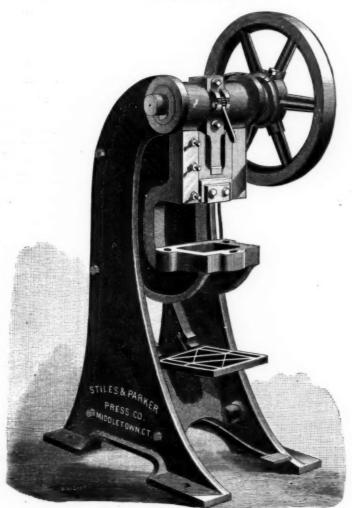


FIGURE 2-SET LEVEL.

In adjustable incline presses, as usually constructed, the movement is from a center newhere below the axis of the driving shaft, so that the shaft moving in the arc of a circle described from that center, the belt handle at the back, in Fig. 1, is connected to a

The in proved means of adjustment employed in this press enables it to be done with great ease and dispatch, a small boy being able to swing the largest press made. The

THE WARKENS.

Office Manufacturers' Record, | Baltimore, August 25, 1885. |

The signs of improvement previously reported continue, and in some lines of trade there is considerable activity, with prospects better than for several years. The enormous crops produced in the South have already imparted a better feeling in business circles, and Southern merchants are preparing for a large fall trade. As stated elsewhere, the United States Agricultural Department estimates the probable yield of corn in the South at 65,000,000 bushels more than last year, while all other crops, excepting wheat, are also much better than in 1884.

The steel rail manufacturers have adanced the price of rails to about \$29@\$30, and it is thought that there will be no decline from these figures.

Some of the bar mills report more demand than for a year past, and are not filling orders as rapidly as heretofore, owing to the greater amount of work on hand,

In the manufactured iron market there is me improvement in the demand, orders being more numerous than heretofore. We quote as before, viz:

| Ref. Bar Iron, 1 to 6x36 to 1 | D. | 11/10 | 1.80 |
|------------------------------------|-----|--------|--------|
| " " 1 to 4 1/4 x 1 1/6 to 1 | 89 | 1140 | 1.8c |
| square | 41 | 11/4 | 1.8c |
| Hoop Iron, 11/2 wide and upward | 44 | 25400 | 2%c |
| Band Iron, from 11/2 to 6 in, wide | 66 | 2146 | 236c |
| Horseshoe Iron | 98 | 2366 | 3 € |
| Norway Nail Rods | 44 | 5 0 | 5%C |
| Black Diamond Cast Steel | 44 | 0 6 | 10 € |
| Machinery Steel | 49 | 356.00 | 456 C |
| Spring Steel | 66 | 3160 | 4 6 |
| Common Horse Nails | 66 | 1 4 | 9 6 |
| Railroad Spikes, 51/2 ag-16 | 66 | | 214 C |
| Perkins Horse Nails | keg | | 3.7836 |
| Mule Nails | 44 | 1 | 4-72% |
| | | | |

The local market shows no change in pig iron, the demand being only moderate. the West there is an increased demand reported. We quote as follows, viz:

| DWITTIMOLE | CHICK | COM | ** | meet | 44.001 | Contr | | |
|-------------|-------|---------|-----|-------|--------|-------|-------|----|
| Baltimore | ore |) | | | | fa8 | 00@29 | 00 |
| Virginia C. | B. (| harco | al | Wheel | Iron | 98 | 00@99 | 00 |
| Anthracite, | | | | | | | | |
| 66 | 46 | 9 | | | | 17 | 81600 | 60 |
| 66 | 66 | 3 | | | | 15 | 00@16 | 00 |
| 60 | Mo | ttled a | and | Whit | e | 13 | 00@14 | 60 |
| | | | | | | | | |

HARDWARE.

The hardware market remains practically anchanged, and while prices are as before, there is reported a firmer tendency. Reports from the South continue favorable for an active fall and winter trade. Nails continue in limited demand with prices as before \$2.00@2.15.

Philadelphia Iron Market.

PHILADELPHIA, August 24, 1885.

The transactions during the past week that are deserving of notice have been confined to pipe iron, bridge iron, steel rails. Outside of these articles, there is nothing of importance to note. No improvement in price has taken place anywhere excepting in steel rails. The cause of this improvement is not easy to ascertain, when we consider that this year the railway mileage is one third less than last year. Prices have nominally advanced to \$28 to \$30. Buyers do not take hold of these figures. Usually in the latter part of August and the early part of September large orders are placed. There are inquiries in the market now for upwards of 100,000 tons. It is believed that large lots are taken at or very little above the prices formerly prevailing, viz: \$26.50 to \$27. current of the iron trade sentiment is that the advance is not legitimate. The expected restriction is the basis of the improvement. The companies can retract their resolution to restrict as readily as they made it.

The structural iron makers are doing a big business. There is not a particle of change in prices. The Baltimore and Ohio Company is in the market for a good deal of material, and it is understood that they have in contemplation the putting up of a good deal of bridge work. The Troy iron company are in the market for upwards of three-quarters of a million dollars worth of material. Virginia

iron is meeting with good sale in this market. Alabama irons are being offered but outside of pipe iron requirements they do not meet with much recognition. A good deal of attention is being called to the facilities for cheap iron making in the South and Pennsylvania; iron makers are not the last in the race to awail themselves of facilities of this character. Pennsylvania forge irons are seliing at \$15 to \$15.50; foundry irons at \$16 to \$18 for standards. All special irons are well The market is in a good condition sold up. for a little advance, but any advance could be easily spoiled by the blowing in of a few hungry furnaces. Nail makers are doing a better business but do not seem to be able to command better prices. Prices run from \$2 to \$2.20 for iron and steel, according to quantity ordered. The bar iron mills are making but little headway, although business is more encouraging than it was during July. Prices are just the same, \$1.50 to \$1.80, though for common brands \$1.40 is readily taken. The half dozen steel works under erection in this State are being pushed for-

Cincinnati Iron Market Report

Specially reported by Rogers, Brown & Co., Pig

CINCINNATI, Aug. 24, 1885. The frequent heavy sales of pig iron noted in these reports during the past three or four weeks forshadowed a change in the market. Such change has come in the past week. Practically for the first time since February sellers are making the prices On the 18th instant, the important group of five Southern coke furnaces, controlled in Nashville, advanced prices on all grades 25 to 50 cents per ton from minimum figures that had been accepted. Leading Alabama furnaces have done the same thing. This is without any understanding or concert of action but results solely from too heavy selling at the figures of three weeks ago. It was not thought that sales would be numerous at the slightly advanced prices, but they have steadily increased. Ohio furnaces are feeling the same influences. Stocks at all furnaces tributary to Cincinnati have been rapidly worked down since August 1st, and are now. excepting at some charcoal furnaces, barely sufficient to afford an assortment of grades The situation is such that both buyers and sellers find interest in watching it closely. Several important car contracts, either recently let or about to be let, have added considerably to current inquiry. We quote for cash f. o. b. cars at Cincinnati:

| HOT-BLAST FOUND | RY. |
|---------------------------------|-------------------|
| Ohio and Southern Strong Coke N | 0. 1\$16 00@17 00 |
| 10 66 of 66 N | 0. 2 15 00@16 00 |
| so es es es N | 0. 3 14 00@15 00 |
| | 0. 1 16 50@17 00 |
| | 0. 2 16 00@ |
| Mahoning and Shenango Valley | Coke, |
| No. 1 | 16 50@17 50 |
| | |
| CHARCOAL IRON | |
| | \$19 00@20 00 |
| | 17 00@19 00 |
| Tennessee and Alabama, No. 1 | 17 50@18 50 |
| 41 No. 2 | 16 50@17 50 |
| FORGE. | |
| Strong Neutral Coke | \$13 50@ |
| Mottled " " | 12 75@ |
| Cold Short | 13 00@ |
| CAR WHEEL AND MAL | LHABLE. |
| Southern Car-Wheel Iron | 22 00@24 00 |
| Hanging Rock C. B | 25 00@27 00 |
| " " W. B | 20 00@23 00 |
| Laba Committee Mallachle | 22 00/0/25 00 |

Specially reported by E. L. HARPER & Co.

CINCINNATI, Aug. 24, 1885.

We are glad to note that our last report is being substantiated in a great measure by the trade generally. Quite a number of good orders have been placed at ruling figures and for immediate delivery. The furnaces generally are becoming more firm and not disposed to sell for delivery beyond September for present prices. We learn that further advances have been realized on iron merchardise. What there is in the future no one knows to a certainty, but the indications are quite encouraging. This feeling exists in all branches of trade, thereby establishing the fact that confidence is being restored. With the continued good feeling and increasing demand there is no doubt but what better prices will be realized soon. We quote as prices current cash f. o. b. cars or

| PO | UNDRY. | Cash. |
|------------------------|--------|-----------|
| Hanging Rock Charcoal, | | |
| Southern Charcoal | " 2 17 | |
| Southern Charcoan | " 2 16 | |
| Strong Neutral Coke, | " 1 15 | 50@16 00 |
| <i>u u u</i> | # 9 14 | 00@15 00 |
| American Scotch, | " 1 15 | 50@16 00 |
| GREY | | |
| Neutral Coke | | 00@13 50 |
| Cold Short | 13 | 00(013 50 |

CAR WHEEL AND MALLEABLE. Hanging Rock, strictly cold blast...... 25 00@25 50 Hanging Rock, strictly warm blast...... 21 0c@21 50 "Cranberry," N. Carolina Warm Blast...... 29 25@22 75 Amherst and Virginia Warm Blast...... 19 00@20 00 Lake Superior Charcoal, all grades..... 19 00@20 00

Louisville Iron Market.

Specially reported by W. B. Belknap & Co., Nails, Wire, Iron, Hardware, Carriage and Wagon Goods. LOUISVILLE, KY., Aug. 24, 1885.

The general market for the past week has manifested an increased activity, which is gratifying to report. There is a good demand for all lines of goods except those that are notably out of season, and such as are controlled by combinations. The railroad interests hereabouts are improving daily,

Bar Iron.—This sluggish commodity has at last awakened in response to the good demand, and the metallic ring of bars and bales may be heard in the warhouses, and at the shops, and on our principal thoroughfares constantly.

receipts are large and rates well maintained,

Hoops are quiet, as this is not the distil-

Sheet is strong both in heavy and light gauges; the demand for heavy gauges indicates a good demand of construction, and confirms the reports that we hear in other

Steel .- Cast steel is selling in fair quantities. Agricultural steels are in request, some large contracts having been placed at figures not far from last year.

Nails.-The demand for nails has been more active than at any time since the January boom. Trade on these has come "all in a heap." Steel nails are especially scarce and commanding full price.

Wire.-The fall trade on barb wire is apparently setting in full power, and it promises to be lively. There is a great deal of fencing to be done throughout this territory this coming season, and farmers are only be ginning to prepare for it.

Metals.—Pig lead and bar lead are selling in a moderate way at advanced prices. Babbit metal and solder are jobbing about as usual, irrespective of advance. Fine crops throughout the South are doing much to stimulate business. A great number of buildings are being put up in our city, and the Exposition, now in full blast, is attracting visitors. Altogether, both city and country are putting on signs of prosperity, and ere long the patient, long-suffering hardware and iron men may hope to share it.

Specially reported by GEO, H. HULL & Co., Com-mission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., Aug. 24, 1885.

The market has been attended with very slight changes during the past week in price. The tone, however, is firm, and there is considerable disposition on the part of the buyers to book orders several months ahead. Furnaces are firmer than heretofore. quote for cash in round lots as below:

| • | Scal, 172 Arazo, to pair |
|---|--|
| PIG IRON, | Buggy, 11/2 in, and larger |
| Southern Coke, No. 1 Foundry \$16 00@17 00 | " 1¼ to 1¾ in |
| " " 2 " 15 00@15 75 | Oil-tempered springs ac. advance from al |
| 11 11 11 11 11 11 11 11 11 11 11 11 11 | |
| Hanging Rock Coke, No. 1 Foundry 15 50@16 00 | MALLEABLE CASTINGS. |
| " " Charc'l, " " 20 00@21 00 | Rate |
| Southern Charcoal, No. 1 Foundry 17 50@18 50 | Core |
| Silver Gray, different grades 14 00@15 00 | SHAFT AND POLE COUPLINGS |
| Southern Coke, No. 1 Mill, Neutral 13 00@13 50 | H, B, LEATHER, |
| " " 2 " " … 12 50@13 00 | No. 1 Top, \$ ft |
| " " 1 " Cold Short. 12 75@13 00 | et 3 et |
| Southern Charcoal, No. 1 Mill 16 00@17 co | " I Dash, " |
| White and Mottled, different grades 11 00@12 00 | FF 2 FF FF |
| Southern Car Wheel, standard brands 23 00@24 00 | Fancy Morocco, # ft |
| " " other brands 18 00@20 00 | Bow, % ft |
| Hanging Rock Cold Blast 23 00@24 00 | Collar, " |
| " " Warm " 18 00@20 00 | Harness, P. D |
| | |

St. Louis Iron Market.

reported by W. H. SHIRLDS, Pig Iron and Iron Ore, No. 318 Olive Street. St. Louis, Aug. 24, 1885.

While prices for standard brands of pig iron show no decline, the general demand is not good. Ohio iron, of strange brands, are offering at ruinously low figures, probably to gain a standing. Some undesirable grades of Southern irons have been unloaded on outsiders desiring to speculate, upon which the purchasers could not now realize within three dollars of the price paid. Upon the whole the condition of the market remains practically unchanged. We quote:

| MISSOUFI | 30.4 | 00(8)10 | 50 |
|------------------------------------|------|---------|----|
| Southern | 17 | 00@18 | 50 |
| Ohio | - | -0- | - |
| COKE AND COAL, | | | |
| Missouri | 14 | 00@16 | 00 |
| Southern | 15 | 00@17 | 00 |
| American Scotch | 16 | 00@19 | 00 |
| MILL IRONS, | | | |
| Missouri | 14 | 00@14 | 50 |
| Southern | 13 | 00@14 | 00 |
| CAR-WHEEL AND MALLEABLE I | ROB | ٧. | |
| Southern | | | |
| Lake Superior | 20 | 00@23 | 00 |
| MISCELLANBOUS. | | | |
| Old Rails | 15 | 00@17 | 00 |
| Old Wheels | 14 | 00(0)15 | 00 |
| Connellsville Coke, East St. Louis | | @ 5 | 30 |
| Wrought Scrap | | -@ | - |
| Cast Scrap | | @ | - |
| Iron, par. | | - | |
| | | | |

HOT-BLAST CHARCOAL.

Chattanooga Iron Market.

Specially reported by Lows & TUCKER, Brokers and

CHATTANOOGA, TENN., Aug. 24, 1885.

We have nothing particular to note in The weather continues business circles. very favorable for all growing crops, which gives further promises as the fall approaches. Some estimates place the cotton crop at 41 1/2 million bales, which will be unprecedented in the history of the South. demand for iron continues to be good, especially for the standard foundry grades. Prices are firm, but without change, viz:

| a reco are many out a minout one | 63 | |
|-----------------------------------|---------|--------|
| No. 1 Foundry | \$14 50 | @15 50 |
| No. 2 Foundry | 13 50 | @14 50 |
| American Scotch | 13 50 | @14 00 |
| Gray Forge | 12 50 | @13 00 |
| Car-Wheel Iron | 33 00 | @24 00 |
| Ores, Red and Brown | 1 50 | @ 2 25 |
| Furnace Coke | 2 00 | @ 2 50 |
| Nails, car-load lots, 30 days | | |
| Bar Iron, per 100 lb | | @ I 75 |
| Old Rails | | @16 00 |
| Old Wheels | | @13 50 |
| Wrought Scrap, No. 1 | | 0 |
| " No. 2 | | @ |
| Cotton Tie Clippings | | @ |
| Cast Scrap | | @ |
| Rail-Road Splices | | |
| Light Rails | 2 00 | - 13 |
| Barb wire—Cambria link | . 00 | |
| Barbed wire—four point galvanized | 5 | @ 5% |
| barbed wire—four point gaivanized | 0 | @ |
| | | |

Carriage and Wagon Material.

| AXLES. | |
|---|-----------|
| Half Patent, solid collar, | dis 60 % |
| Common | |
| Concord | 836 |
| BODY LOOP ENDS. | |
| Plain, set | 100 |
| Bolts, Eagle | . 75 |
| CLIPS, | |
| Superior Axle | dis 60 % |
| Norway | 40 % |
| Saddledoz se | t \$1 50 |
| FINISHED CLIP KING BOLTS. | |
| Nos. 1 & 2 3 | |
| Flanged, \$\partial \text{doz}\$3 00 3 5 | 0 — |
| DASHES. | ** |
| Leather | dis 10 \$ |
| ENAMELED CLOTHS. | |
| Muslin, % yard, 5-4 | |
| Driff, 30 in | |
| | |
| Tan Back, " 5-4 | . 32 |
| PELLOE PLATES. | |
| Per 10 | . 8 |
| FIFTH WHEBLS, | |
| Derby, 5%, \$\ doz | . \$7 75 |
| 4 %, 4 | . 8 75 |
| Cincinnati, 3/6, # doz | . 6 00 |
| 46 %, 41 | |
| RUBBER DUCK AND DRILL-35 % off list SPRINGS, | |
| Seat, 11/2 x2x26, \$ pair | . 90 |
| Buggy, 11/2 in. and larger | |
| Oil-tempered springs sc. advance from above | . 9 |
| MALLEABLE CASTINGS. | |
| Rate | 8 |
| Core | |
| SHAFT AND POLE COUPLINGS | |
| H. B. LEATHER. | 50% |
| No. 1 Top, % ft | 98 |
| 11 2 11 11 | 93 |
| " 1 Dash, " | 19 |
| " 1 Dash, " | @10% |
| Pancy Biorocco, wit | 36 |
| Bow, Aft | @23 |
| | |

| | | | | .\$2 25@7 50 |
|------|--|--|----------|----------------------|
| to | 134 | | | \$2 25 \$ set. |
| to 1 | 36 | | | . 2 50 ** |
| to 1 | 16 | | | 3 50 " |
| Pat | ent | | M6 so to | TA 000 " |
| | | | | |
| | | | | ** |
| 8 | 176 | ×34 | 178 | 136 |
| 25 | 1 25 | 1 35 | 1 60 | 2 00 % set, |
| 00 | 3 25 | 3 50 | 3 75 | 4 25 ** |
| | | | | |
| 1 | 13/6 | x34 | 136 | x36 |
| 25 | 2 25 | 2 25 | 2 50 | 2 75 B set. |
| | | | | 3 75 " |
| | Pat Pat Hit 1 25 00 Hi | to 1½ Patent HICKORY 1 1½ 25 1 25 00 3 25 HICKORY 1 1½ 25 2 25 | to 1½ | to 1½ to 1½ patent |

W. R. S under date of August 15 writes: "I noticed in your issue of this morning an article on the subject of Boiler Construction, and it reminds me of a test lately made of the Root Boiler at the Tyson Chrome Works. This boiler will be worked under a regular steam pressure of 250 pounds. It was tested up to 500 pounds hydraulic pressure. It is to run a pair of pneumatic pulverizers, which require high-hot and drysteam. This pulverizer is in itself very remarkable, and merits your attention. It will pulverize anything from iron filings to the hardest stone. The Root Boiler, as now made and sold, is a 'thing of beauty,' and will be to all steam users 'a joy forever.' Go and see it."

WE notice that the Baltimore MANU-FACTURERS' RECORD is largely quoted all over the country as the leading trade paper of the South. It is doing an immense work in behalf of the Southern States, and that work is bound to tell in the near future. -Commercial, Chattanooga, Tenn.

List of Patents

The following Patents were granted to citizens of the Southern States, bearing date Aug, 18, 1885. Re-ported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

rerombie, T. H., Tumbling Shoals, S. C.

electric telegraphy......324,746
Buatt, S. P., Bastrop, La. Gold and other metallic amalgam.....324,650 Carskadon, T. R., Keyser, W. Va. Portable

building......324,456 Clark, J. W., Hermanville, Miss. Seed-Coalter, J. A., Wolf Creek, W. Va. Bee-hive. 324,657

for treating ramie and sugar-cane......324,674
Goodwin, G. W., Blair, S. C. Distributer and

Jones, Allen, San Marcos, Tex. Self-cleaning324,386 plow......324,559 Mergenthaler, Ottmar, Baltimore, Md. Shaft-

bearing..... Metcalfe, C. W., Hopkinsville, Ky. Saw-mill324,400 day, R. O., Dallas, Tex. Cloth-cutting

Park, J. R., La Vergne, Tenn. Railway324,404 Price, G. W., Baltimore, Md. Engine....... Price, G. W., Baltimore, Md. Cut-off valve

PATENT LAW.

PAUL BAKEWELL.

Attorney at Law, ST. LOUIS, MO. 417 OLIVE STREET, ST. LOUIS Branch, Crookes & Co., Liggett & Myers Tobacco Co., Excelsior Manufacturing Co.,

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for
one year, or six months for \$1.50.

Wellsburg's Water Works.

WELLSBURG, W. VA., August 24, 1885. Editor Manufacturers' Record .

Our town council has approved the plans and specifications for a water works for this town, prepared by B. W. Peterson, C. E., of Wheeling, W. Va. The entire works will cost \$25,000. Masonry reservoir, capacity 200,000 gallons. An election will be held August 29 to decide whether or not council shall issue the bonds of the town for \$25,000, the sum needed to accomplish the work.

D. McClelland.

DENTON, MD., August 24, 1885. Editor Manufacturers' Record:

I am building a saw and grist mill, 80-horse ower; hope to be in operation about the F. W. REDDEN. first of October.

A Tobacco Factory.

ASHEVILLE, N. C., August 24, 1885. Editor Manufacturers' Record:

We are having put up a large brick factory for handling bright leaf tobacco.

R. M. PINSON.

A Gin and Mill.

GREENWOOD, S, C., August 19, 1885. Editor Manufacturers' Record

I have just put up 2 60-saw gins with power press, and a mill to grind cotton seed for fertilizers, with bolting machine to separate hulls from the meal for feed. The cost of machinery and house will be about \$3,000. J. H. OLDHAM.

To Build a Turnpike.

DANVILLE, VA., August 22, 1885. Editor Manufacturers' Record:

We will in a few days open for bids a contract for 2,800 feet of Macadamized tornpike; plans and specifications can be had by applying to the writer or other of the committe as will be advertised.

E. H. MILLER.

THERE are few Southern cities whose progress has been more rapid than that of Knoxville, Tenn. Twenty years ago Knoxville imported coal by wagons; to-day she furnishes a quarter of a million tons for export. Twenty years ago but one iron mill south of Richmond; to-day Knoxville exports well on to a quarter of a million dollars in tron and nails; twenty years ago and zinc spelter to make a gun cap was imported; to-day Knoxville exports a million and a half pounds; twenty years ago Knoxville bought marble slabs in Vermont; to day Knoxville exports well on to half a million dollars' worth; twenty years ago we we bought walnut tables in New York; today Knoxville exports twenty million feet of walnut lumber; twenty years ago Knoxville sold a quarter million of dry goods, groceries, & .; to-day Knoxville sells perhaps four millions; twenty years ago one hard-ware store, 25x100, sold the hardware; today Knoxville uses a million in hardware alone; twenty years ago Knoxville had a small clothing store, to-day one clothing house will likely pass half a million.-Ex.

Important.

Passengers arriving in the city of New York via Grand Central Depot, save \$3 carriage hire and transfer of baggage, by stopping at the Grand Union Hotel, opposite said depot. Passengers arriving by West Shore Rail Road, via Weehawken Ferry, by taking the 42d street horse cars at Ferry entrance, reach Grand Union Hotel in ten minutes for 5 cents, and save \$3 carriage hire. Passengers arriving at Pennsylvania Depot, on reaching New York side, can take 6th Avenue Elevated Railroad at Cortlandt Street Station, and reach 42d Street Station, two blocks from Grand Union Hotel, in 20 minutes, for 10 cents, thus saving \$3 carriage hire. 600 elegant rooms, \$1 and upwards per day. European plan. Elevators, restaurant, cafe, lunch and wine rooms supplied with the best. Prices moderate. Families can live better for less money at the Grand Union than at any other strictly first-class hotel in the city. Guests' baggage delivered to and from Grand Central Depot, free.

SALE.

This farm is situated on the San Marcos River, in Caldwell County, Texas, and just one mile from Luling, a town of 3,000 inhabitants, on the G. H. & S. A. Railway, a through line daily from Galveston to San Francisco, California. It has a mile frontage on the San Marcos, a beautiful, bold and clear stream, abounding in fish of finest quality. There are 600 acres in cultivation, yielding from one to one and a half bales of cotton to the acre, and from 40 to 50 bushels of corn, or 80 bushels of oats to the The residue is under good wire fence and is heavily timbered with post oak and well supplied with unfailing stock water. There are five small tenant houses upon the arable land with pens, cribs, &c. This is one of the finest farms in West Texas, and can be easily divided into smaller farms with pasturage for each. Price \$20,-000-one-half cash and balance on easy time.

Apply to ELIAS EDMONDS, Attorney at Law, San Antonio, Texas.

One thousand (1,000) acres finely located orange land in South Florida offered for sale for ten thousand (\$10,000) dollars. Lands of same quality, adjoining, are held at twentyfive (25) dollars per acre. Railroad already ironed, and expected to be in full running order under the best management in the State by October, passes close by these lands, intersecting them at one corner. By holding them a few years, much money can be realized from their sale, as property is rapidly appreciating. Will sell all or an undivided half interest in same. This investment will pay twenty-five per cent. per annum, and by proper management, will yield even more. Address Florida, care MANUFACTURERS'

LODGE, BARKER & CO.

Cincinnati, Ohio.

Square Arbor Fox and Improved Turret Lathes. Valve Milling Machines, Box Chucks, Turret Chucking and Engine Lathes. Write for Cuts, Photographs and descriptions.

1,600-ACRE FARM FOR BOOMER & ₩BOSCHERT.



Cotton, Woolen and Paper Factories.

Cotton Seed, Paraffine and Castor Oils,

Send for Circulars

BOOMER & BOSCHERT PRESS CO. SYRACUSE, N. Y.

NEWSPAPER A book of 100 pages.
The best book for an

The best book for an advertiser to contains lists of newspapers and estimates of the cost of advertising. The advertiser who wants to spend one dollar, finds in it the information he requires, while forhim who will invest one hundred thousand dollars in advertising, a scheme is indicated which will meet his every requirement, or can be made to do so by slight changes easily arrived at by correspondence. 149 editions have been issued. Sent, post-paid, to any address for 10 cents. Write to GEO. P. ROWELL & CO., NEWSPAPER ADVERTISING BUREAU. (10 Spruce St. Printing House Sq.), New York

If you are not aheady a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.56.



SEBASTIAN, MAY & CO.

National Coopers'

PUBLISHED AT

BUFFALO, N. Y.

The ONLY PAPER in the World Devoted Exclusively to Cooperage.

\$1.00

PER YEAR.

\$1.00

ADDRESS.

The National Coopers' Journal,

192 and 194 Main St.,

BUFFALO, N. Y.

nd for Sample Copy.

FOR SALE.

WEST VIRGINIA TIMBER LANDS.

6,000 Acres, six miles from Railroad Depot and on Blackwater river. Cherry, spruce, hemlock and beech, over 200 years in age on land of mineral and agricultural value. This offering has been critically examined and reported on by an expert agent of this office. Report submitted to applicants.

CLARENCE GORDON, Southern Real Estate Investment, 4 Pine St., N. Y.

NOTICE. State of North Carolina.

I own in my own right, and in connection with others, about 27,000 Acres of Land, which I will sell at \$1.75 per Acre.
It is in Autauga, Wilkes and Caldwell Counties, North Carolina, in three solid bodies, on Elk, Laurel and Duckitts Creeks, emptying in the Yadkin River. It is well set in good timber. The finest belt of White Pine, White Oak, Hickory, Ash, Maple, Poplar, Hemlock. A fair share of Walnut and various other kinds.

kinds. A har share of wantut and various officials.

The timber is cheap at what I ask for the whole property. It is thickly spread with mineral indications—Gold, Silver and Iron.

The Watauga portion is rocky and the mineral is in appearance the same as the "Cranberry Magnetic Iron Rock." The railroad now making will increase the value.

Apply to JOHN R. HODGES, Middle Cane, North Carolina, Reference—E. M. Davis, Philadelphia, Pa.





Covert's "New" Patent

has been upon the market about one year, and has met with unprecedented success. Wherever it has been used it has met with the greatest favor and given unbounded satisfaction. It is now being handled by many of the leading jobbers in the United States, from whom we have received many flattering testimonials attesting to its merits and expressing the great satisfaction it is giving, both to them and their customers. It also being so moderate in price, and superior in quality, it relieves the jobber from earrying such a heavy stock and variety, as the "New" snap takes the place of so many others of inferior grade.

We also offer our extensive line of ROPE GOODS: Rope, Horse and Cattle Ties; Harness Snaps, Chain Goods, Etc. These goods are sold by all leading jobbers in general and Saddlery Hardware at manufacturers' prices. Send for Illustrated Catalogue and Price-List. Address

COVERT MANFG. CO., Sole Manufacturers, WEST TROY, N. Y.

Derby Roll Top AND Flat Top Desks



The BEST and CONSEQUENTLY the CHEAPEST OFFICE DESK IN THE WORLD.

Kilmer Desk

Manufacturers.

OFFICE AND WAREROOMS:

55 to 65 Charlestown St., BOSTON, MASS.

JARVIS PATENT FURNACE

FOR SETTING STEAM BOILERS.

Beonomy of Fuel, with increased capacity of Steam wer. Like the Siemens Process of Making sel, it utilizes the waste gases with hot air on top of fire. Will burn all kinds of waste fuel without a st, including Slack Coal, Sawdust, Logwood Chips, Send for Circulars.

Jarvis Engineering Co., A. F. UPTON, Treas. and Gen'l Manager, 61 Oliver St., Boston, Mass.

JOSHUA C. COE, Agent for Maryland and Virginia, O'Donald's Wharf, Baltimore, Md.

SOUTHERN REFERENCES:

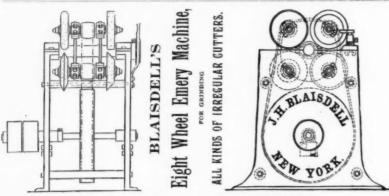
Eagle & Phenix Mfg. Company, Columbus, Ga.
Anniston Mfg. Co., Anniston Ala.
J. P. King Mfg. Co., Augusta, Ga.
Kose Mining Co., Charleston, S. C.
Maryland Favement Co., Baltimore, Md.
Brush Electric Light Co., Baltimore, Md.
Tanner & Delaney Engine Co., Richmond, Va.
Sibiey Mills. Augusta, Ga.



ebrated alloys in Wire, Rods, Sheets, Bolts. Ropes, Wire Cloth, Castings, Ingots, etc. Pamphlets and particulars on application to

THE PHOSPHOR-BRONZE SMELTING CO., Limited. No. 512 ARCH STREET, PHILADELPHIA, PA

Owners of the U. S. Phosphor-Bronze Patents. Sole Manufacturers of Phosphor-Bronze in the United States.



GOODELL & WATERS.

Manufacturers of all kinds of WOOD-WORKING MACHINERY, Warerooms, 1151/2 Liberty Street, New York. J. H. BLAISDELL, Manager.

THE MACKENZIE PATENT CUPOLA AND BLOWER

Send for Circular to SMITH & SAYRE MFG. CO., Proprietors, 245 Broadway, N. Y.



This Cupola has made a great revolution in melting Iron. It differs from all others in having a continuous tuvere, or in other words, the blast enters the fuel at all points. Above one ton capacity per hour, they are made oval in form. This brings the blast to the center of the furnace with the least resistance and smallest possible amount of power, and in combination with the continuous Tuyere causes complete diffusion of the air throughout the furnace, and uniform temperature, melting ten or fifteen tons an hour with the pressure of blast required to melt two or three tons in an ordinary Cupola. It also enables us to save very largely in time and fuel, the experience of our customers showing a gain of twenty-five to fifty per cent. in time, and twenty-five to forty per cent. This is due to the thorough diffusion of the air and more perfect combustion, extracting less carbon from the irom, making a softer and tougher casting.

We manufacture these Cupolas of any desired capacity, numbered from 1 to 20, inclusive, the numbers indicating the melting capacities in rons.

PER HOUR—No. 1, one ton; No. 2, two tons; No. 3, three tons per hour, and so on up to 15, or 20 tons.

We have improved the construction of these Cupolas in every way, have increased their strength and durability, and sought to make them as convenient for working and repairs as our own and the experience of our customers could suggest.



EWART'S PATENT CHAIN BELTING

Especially designed for the rapid and economical handling of Grain, Malt, Saw Dust, Coke and Clay, Dry and Spent Tan, Phosphates and Chemicals, Broken Stone, Coal, Ice, Ores, etc.

SWORMSTEDT



48 S. FREDERICK ST.

North Carolina, South Carolina and Georgia.

MOOPES & TOWNSEND

MANUFACTURERS,



KEYSTONE BOILER RIVETS.

Cold-Punched Square and Hexagon Nuts.

Finished and Case-Hardened Steel Hexagon Nots.

BRIDGE RODS AND RIVETS.

BUILDERS' IRON WORK.

TANK AND COOPERS' RIVETS.

Stockport Gas Engine UNEQUALLED

Simplicity, Durability,

Reliability, Economy. Lightness, and



Receives an Impulse at every revolution.

Runs Silently.

Uses Less Gas per Horse-Power than any other.

DICKSON MANFG. CO.

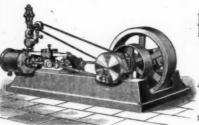
Locomotives, Stationary Engines, Boilers, Mining Machinery,

SCRANTON, PA., and 112 LIBERTY ST., NEW YORK.
Send for Circular, giving particulars of sizes and prices.

ADAMS & PRICE MACHINERY CO. NEW AND IMPROVED PRIN

BOLT NUT THREADING MACHINES

STATIONARY ENGINE



Lidgerwood & Mfg. & Go.

96 LIBERTY STREET, NEW YORK. WORKS, BROOKLYN.

simple, compact, thoroughly well made, quick running, self-contained

STATIONARY * ENGINE,

%HOISTING ENGINES A SPECIALTY. ALSO, BOILERS. №





402 to 412 W. Front Street. CINCINNATI, O. PATENT TERRAPIN

CENTRE CRANK ENGINES,

BOILERS AND SAW MILL MAGHINERY.

Prentiss' & Patent &



"Peerless" (Swivel Jaw) Pipe Grip.

Every Part Interchangeable. CAN BE USED ON ANY VISE.

Stationary or Pat. Swivel Bottoms

CANNOT GET OUT OF ORDER.

Cheapest and Best Vises for Railroad Shops, Ma ninists, Manufacturers, Mechanics, &c.



PRENTISS VISE CO., 23 Dey Street, NEW YORK, Sole Proprietors.

938 to 954 River Street, and 67 to 83 Vail Avenue,



ilse

on.

ver

an



Also Fire Hydrants, Yard and Wash Hydrants, Check and Foot Valves.

STEVENS

Chicopee Falls, - -

Spring Caliper 🔊 Dividers,

FINE MACHINIST TOOLS

AND FIRE ARMS.

Our SHOOTING GALLERY RIFLE

IS THE FAVORITE EVERYWHERE.

SEND FOR ILLUSTRATED CATALOGUE.

THE MIDVALE STEEL CO.



CRUCIBLE AND OPEN HEARTH STEEL.

Works & Main Office:

SPRING

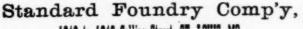
Screw Caliper

Patent Washer.

Nicetown, Philadelphia, Pa

333 Walnut St., Philadelphia, Pa.





1240 to 1248 Collins Street, ST. LOUIS, MO.



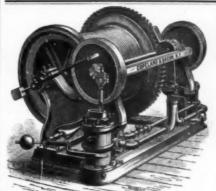
WM. SELLERS & CO.

IRON AND STEEL-WORKING MACHINE TOOLS.

Shafting, Pulleys, Hangers, Couplings, &c.

Were the first parties to design and introduce the BALL and SOCKET HANGERS, ADJUS-TABLE COUPLINGS, and the system of selling Shafts, Pulleys and Couplings by the piece. Will be pleased at any time to give estimates for work in place, in mills or at our works. Price-Lists and other information given when requested.





Furnace Hoists. Mine Hoists.

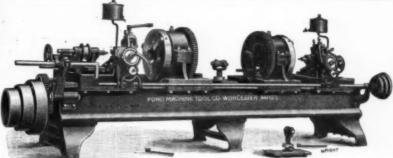
"Mining PLANTS," Concentrating Works and Dredging Machinery Furnished Complete.

COPELAND & BACON

85 Liberty Street, New York

FAIRBANKS & CO., Agls., Philadelphia, P. Buffalo, N. Y.

REFERENCES:—Croton Magnetic Iron Mines. Brewster's, N. Y. Crown Point Iron Co., Crown Point, N. Y. Belvidere Iron Co., 52 Broadway, New York. Sea Island Chemical Co., Beaufort, S. C.



Manufacturers of IRON-WORKING MACHINERY, Worcester, Mass.

The Babcock & Wilcox Water Tube Boilers.

BRANCH OFFICES:

32 N. 5th St., Philadelphia.

3 Spring st, Sydney, N. S. W



BRANCH OFFICES

red BABGOGK & WILGOX GO., 30 Cortlandt Street, NEW YORK



THE MEDART PATENT

THE LIGHTEST, STRONGEST,
BEST BALANCED, AND CHEAPEST

Whole pulleys from 9 inches to 130 inches diameter. Split pulleys from 12 inches to 130 inches diameter.

All widths of face up to 36 inches, crowning or straight, with single, double or triple sets of arms. Also tight and loose pulleys. Absolute C. SHAFTING, HANGERS, COUPLINGS, &c.

MEDART PATENT PULLEY CO.,

206 TO 1214 N. MAIN STREET, ST. LOUIS, MO. St., Cincinnati. 24 & 26 S. Canal St., Chicago.

GES Empire Portable Forge Co
Cohoes, N. Y.
Send for Catalogue.

SAML. G. B. COOK & CO., HARDWARE 63, 65, 67 and 69 German St., BALTIMORE, ND.

Buckthorn Fence Co.—Buckthorn Wire.
American Screw Co.—Screws, Rivets, Bolts, etc.
Branford Lock Works.
Boss Molasses Gates.
Carr & Crawley.—Shelf and Carriage Hardware.
Lancaster Bolt Co.—Eagle Carriage Bolts.
Lawson & Brenier.—Hay and Manure Forks.
Meriden Britannia Co.—Rogers Bros. Ar Plated Goods.
Northwestern Horse Nail Co.
Nicholson File Co.
Naugatuck Cutlery Co.
Globe Horse Nail Co.

Cowles Hardware Co.—Geers, Butts, Screw Drivers, etc.
H. Chapin's Sons.—Rules, Levels, Gauges, etc.
Clark Bros. & Co.—Bolts.
Essex Horse Nalls.
A. Field & Sons.—Tacks, Finishing Nails, etc.
H. C. Hart Manufacturing Co.—Spring Butts, Screen Frames, etc.
Hubbard, Bakewell & Co.—Lippincott Axes, Saws, Shovels and Hoes.
Holroyd & Co.—Stocks and Dies.
Henry W. Kipp.—Hammers.
Klein, Logan & Co.—Picks, Mattocks, Sledges, etc.
Kimball's Patent Shovels and Spades.
Lockwood Steel Hoes.

Peck Bros. & Co.—Brass Cocks.
Payson Mnfg. Co.—Building Hardware.
Patton Mnfg. Co.—Enameled and Tin'd Hollow Ware,
Roy & Co.—Strap and T Hinges and Wrought Butts.
Saranac Horse Nail Co.
Scott Mnfg. Co.—Peach and Apple Pearers, etc.
George M. Scott.—Blacksmith Bellows.
Wilson's Mnfg. Co.—Coffee Mills, Vises and Ship Hardware.
Walker's Horse and Mule Shoes.
International and Pimico Brand of Horse Nails, Foreign and Domestic Hardware, Cutlery, Chains, Pistols, etc.

Scott's Rotary Knife Peach Parer

THE ONLY PEACH PARER, THE BEST APPLE PARER,

MADE IN TWO SIZES: "FAMILY" AND "MAMMOTH."

"IMPROYED VICTOR" Apple Parer, Corer and Slicer. "ORIOLE" Apple Parer, Corer and Slicer.

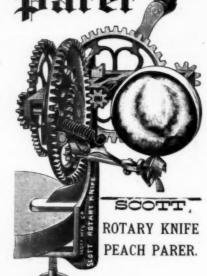
GOLD MEDAL APPLE PARER.

PHILIP'S Fruit and Vegetable Evaporator. "UNIVERSAL" and "NEW IDEA" Can Openers.

PATENT IRON FRAMED TRAYS FOR FRUIT EVAPORATORS.

SIMPROVED 1884 HOPPER CHERRY SEEDER. ❖

SCOTT MANUFACTURING CO., Baltimore, Md.





THE ATLANTA WIND ENGINE COMPANY,

ECLIPSE WIND MILLS AND PUMPS.

MANUFACTURERS OF

Cypress & Yellow Pine Tanks,

Geared Mills, Grinders, etc.

Suburban Water Works, and for



Water Works for Towns and Cities.

Steam Pumps for all Purposes. Write for Catalogue.

ATLANTA RUBBER COMPANY,

Stock Farms, Irrigation, Etc.

RUBBER BELTING,

ATLANTA, GA

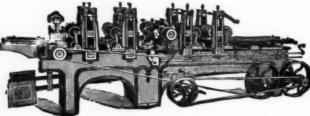
PURE OAK LEATHER BELTING,
MILL SUPPLIES AND
ALL KINDS OF RUBBER GOODS.

AGENTS:

NEW YORK RUBBER CO'S BELTING, &c. HOYT'S LEATHER BELTING. NEW JERSEY RUBBER SHOE CO.



Wood-Working * Machinery



Railroad Shops,
Planing Mills,
Car Builders,
Cabinet, Carriage,
Sash, Door
Blind Makers.

We received eight First-Class GOLD MEDALS at the World's Exposition, at New Orleans, La., on our Machinery, awarded by an Experienced and Practical Committee.

GOI,D MEDAL for best Fast-Feed Flooring Machine, GOLD MEDAL for best Molding Machine, GOLD MEDAL for best Endless Bed Double Surfacer, GOLD MEDAL for best Jointing Machine,

GOLD MEDAL for best Circular Saw Machine.

GOLD MEDAL for best Planing Machine for Matching two Boards at a Time.

GOLD MEDAL for best Panel Planer.

GOLD MEDAL for best Shop Surfacer. Illustrated Catalogues on Application.

S. A. WOODS MACHINE CO.

WAREROOMS:

91 LIBERTY STREET, 172 HIGH STREET, 61 S. CANAL STREET,

→ HARDWARE. ←

| Baltimore WHOLESALE Prices. |
|---|
| ANVILS. \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| Ives. Jan. 7, 1880 Cook's Douglass Mfg. Co. dis 408:10 \$ Griswold. dis 508:10 \$ Patent Solid Head. dis 25 \$ Russell Jennings' Auger, Dowell, Machine- Dowel and Hand Rail Bits. dis 108:108:108 Ives' "Lennings" Bits. dis 108:108:108 |
| Wilkinson's. 10\frac{4}{6}COM. Valley Mfg. Co. dis 60\text{RtoKtoK} Comn. Valley Mfg. Co. dis 60\text{RtoKtoK} Douglass Mfg. Co. dis 40\text{RtoKtoK} Jan. 7, 18\text{RtoCook's Douglass Mfg. Co. dis 40\text{RtoKtoK} Cook's Douglass Mfg. Co. dis 40\text{RtoKtoKtoK} Pacent Solid Head. dis 50\text{RtoKtoKtoK} Pacent Solid Head. dis 10\text{RtoKtoKtoKtoK} Pacent Solid Head. dis 10RtoKtoKtoKtoKtoKtoKtoKtoKtoKtoKtoKtoKtoKt |
| Double Citt Gimer Bits, Ives dis 50 % Morse's Bit Stock Drill dis 25 % L'Hommedieu's Ship Augers dis 15 % AWL HAPTS. Sewing Brass Ferrule: \$3.50 % gross—dis 40&10 % Patent Sewing, Short \$50 % gross—dis 40&10 % |
| Patent Sewing, Long \$1.20 \$\(\pm\) dos. net Patent Peg, Plain Top \$10 \$\pm\) gross—dis 40\(\pm\) to \$\pm\\$ patent Peg, Leather Top \$12 \$\pm\\$ gross—dis 40\(\pm\) to \$\pm\\$ Awis, \$\pm\\$ nad birts, \$4C. Awis, Sewing, Common 75c. to \$1 Awis, Sewing, Common |
| Hol. Aug., Ives' Expansive, each \$4.50, dis 30% 10 \$ Hol. Aug., Universal Expansive, each \$4.50, dis 20 \$ Wood's |
| Collins & Co |
| Collins & Co |
| Sheldon & Co., iron |
| Engine Polonoss ! |
| Hand, Light Brass |
| Hand Bellowsdis 25 % |
| Prancis dis 20 g Mackrell's g doz pairs \$1.00, dis 10 g Van Sand's Screw Pattern \$9.00 g gross, net Van Sand's Old Pattern 13, \$8; 1½, 8.50 g gro. net Merriman's \$1.00 in \$9 gross \$33.00 Zimmerman's, 10% in \$9 gross \$33.00 Zimmerman's, 10% s gross \$30.00 BLIMU STAPLES. |
| Barbed, % in. and larger |
| BLOCKS. Penfield Block Co. Rope and Iron Stran'd. dis an # |
| Cast Iron Barrel Shutter, &c dis 55&10 % Cast Iron Chain (Sargent's list) dis 60&10 % Wrought Barrel dis 55&10 % Wrought Square dis 55&10 % Wrt. Shutter, All Iron, Stanley's list dis 50&10 % Wrt. Shutter, Brass Knob, Stanley's list dis 50&10 % Wrought Shutter, Sargent's list dis 50&10 % Wrought Shutter, Sargent's list dis 50&10 % Wrought Sunk Flush, Sargent's dis 50&10 % Wrought Sunk Flush, Stanley's dis 50&10 % Wrought Sunk Flush, Stanley's dis 50&10 % Carriage and Tire, Common, new list dis 55 % Carriage and Tire, Philadelphia Pattera dis 50 % Carriage Bolts, Clarke's dis 50 % Carriage Rolts, Clarke's dis 50 % Torray dis 50 % Torray dis 50 % Tire, American Screw Co's, Phila dis 50 % Tire, "Bay State" dis 70&20 f new list Eagle Philadelphia Tire Bolt dis 82/6 % 10 % Stove dis 70 % Eis 70 % E |
| Machinedis 75 % Bolt Ends and Lag Screwsdis 75 % |
| Q. S. Backus dis 50 % Barber's dis 40% 5 % Spoffard's Patent dis 50% 5 % Ive's Patent Braces dis 50 % is 50 % |
| Sweet & Clark upright, 3.60 angular |
| Shelf, fancydis 50&10 \$ Shelf, fancydis 55&10 \$ |

| | BALTIMORE MANUF | A |
|---|---|--|
| | BRIGHT WIRE GOODS. New listdis 70&10&10 ≸ | 1 |
| | New list | |
| - | Humason, Beckley & Co's | |
| | Fast Joint, Narrow | |
| | Loose Joint, Jap, with Acornsdis 70&10 \$ Parliament Buttsdis 70&10 \$ Mayer's Hingesdis 70&10 \$ | |
| - | Loose Pin, Acorns | |
| | Tips | |
| | Fast Joint, Broad | 1 |
| | Fast Joint, Narrow | |
| | Spring Hinges— Geer's Spring and Blank Butts | 1 |
| - | Gem Spring Hinges | |
| | Blind Butts, Shepard's No. 75 | |
| - | Loose Pin, Light | |
| | Hotchkiss | |
| | Bradley's | |
| | CAN OPENERS. American | |
| 5 | No. 4, French | |
| | Universal | |
| | U. M. C., Cen. fire ground | |
| - | 1 3 5 5 5 5 5 5 5 5 5 | |
| | Rim | |
| - | "Swaged Conical | - |
| | Rim-fire, 22 short. \$ 5 long \$ 6.00 " 32 " 10 " 15.50 " 38 " 18 " 18.00 " 41 " 15 " 17.50 Central Fire—32, \$11.00; 38, \$13.50; 41, 15.00; 44, \$19. | - |
| - | CAROS. Horse and Curry, new list, July, 1881dis 10 % Cotton, new list, July, 1881dis 10 % Wool, new list, July, 1881dis 10 \$ | |
| | CANNESS CANDS Horse and Curry, new list, July, 1881 | |
| - | CASTERS. GHs 25 % | de la constante de la constant |
| | CATTLE LEADERS. 41s 60% 10 \$ | |
| | CHAIN. | |
| | German Fraiter and coil Chain. dis 508210 % Trace, Breast and Fancy. dis 458.5 % Oneida Halter Chain (old list). dis 458.5 % Galvanized Pump Chain. # bb 8c net Jack Chain, Iron. dis 60810 % Jack Chain, Brass dis 50810 % CHALK. | |
| | | 1 |
| | White #gross occ net Red. #gross 85c net Blue. #gross \$1.00 net White Crayons | |
| | Cotton Chalk Lines, so feet: Nos. 11, 13, 15, 17, 20, dis 33½ \$ 3.20. 3.60. 4.60. 4.50. 5.25. dis 33½ \$ CHISBLE. | |
| | CHIBBLE. Socket Framing, Crossman. dis 648.5 Socket Framing, P. S. & W. dis 708.10 Socket Framing, Douglass' dis 75 Socket Firmers, Cossman. dis 658.5 Socket Firmers, Ohio Tool Co. dis 668.10 Socket Firmers, Douglass' dis 708.10 Socket Corner. dis 708.10 Tanged Firmers, Butcher's. dis 408.45 Tanged Firmers, Butcher's. \$5.008.5.25 to I. Merrill's Socket and Framing Chisel. dis 658.10 CLAMPS. | |
| | Socket Firmers, Ohio Tool Codis 60&10 \$ Socket Firmers, Douglass' | |
| | Tanged Firmers, Butcher's\$5,00@\$5.25 to £ I. Merrill's Socket and Framing Chiseldis 65&tro \$ CLAMPS. | 1 |
| | CLAMPS. Iron, Screw, Eagle dis 55 % Iron, Adjustable, Stearns' dis 20 % 10 % 10 % 10 % 10 % 10 % 10 % 10 % | |
| | Conestogodis 60& 10 % | |
| | COCKS, BRASS. Racking, new list, July 10, 1880 | |
| | COPPRE MILLS. dis 45 \$ Wilson's | |
| | Enterprise Mfg. Co | |

| | _ |
|---|------------|
| Bradley's dis 25@80 \$ Barton's dis 90 \$ Cast Steel | A V K |
| Cast Steel | |
| Curling Tongs | PRBJ |
| CURRY COMBS. dis 50 \$ | SFLSL |
| White Enamel | SIL |
| Association (Table) | AFFF |
| DOG COLLARS. dis 20 \$ Leather dis 25 \$ Brass dis 25 \$ BOOR SPRINGS. | ECV |
| 10rrey's Rod, regular size, \$\pi\$ doz., \$\pi_3\dis 40\text{000} \text{3} \\ \text{Gem} (\text{Coil}); \text{No. 1, Large Japanned}\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{ | 1 |
| Gem (Coil): No. 1, Large Japanned | SCIENT |
| Ohio Tool Co | (|
| DRAWING KNIVES. | Y I |
| Blacksmithseach, \$2.50, dis 10 % Blacksmiths Self-Feedingeach, 7.50, dis 20 % | (|
| DRILLS AND DRILL STOCKS. | 1 |
| Victoriagross, \$10.00 | 1 |
| EMERY AND EMERY PAPER. Regular numbers | 1 |
| Kettles dis 668 108 10 \$ Sauce Pans dis 45 \$ Tinned Sauce Pans dis 45 \$ Escutcheon Pins dis 50 \$ | 1 |
| Door Lock | - W. W. W. |
| Fenn's Cork Stops dis 33 1/2 8 | 1 |
| FAUCETS. | 00115 |
| E. M. Hoynton's | 2 |
| J. Sommer's Cork Lineal, 1st quality | - |
| Union File Co | 1 |
| Knox, 6-inch Rolls | 1 |
| Crown, 4½-in., \$3.50; 6, \$4.00; 8, \$5.50 eachdis 35 \$ Crown Jewell6-in., \$3.40 eachdis 35 \$ Americans,-in.,\$3; 6-in., \$3.40; 7-in.,\$4.50 each dis 35 \$ Domestic Fluter | 1 |
| Crown Hand Fluter, Nos. 1, \$15; 2, \$12.50; 3, \$10.50; 4, \$8.25 \$1 doz | I |
| Lawson & Brenizer | 1 |
| Burnished list as follows | 1 |
| Marking, Stanley's | (|
| Mail and Spike | S |
| Family F | (|
| Dargent's Patent | EHIL |
| Reading Haroware Co | IIFFFF |
| HAMMERS. | 600 |

| BRIGHT WIKE GOODS. | COOPERS TOOLS. dis 15@20 % | Magn'c Tack, Nos. 1,2,3, 1.26,1.50 and 1.75.disa5&108 Warner & Noble's |
|--|---|---|
| New list | Barton'sdis 20 \$ CROW BARS. Cast Steel | Kip's or Selsor's |
| Sargent'sdis 60&10 \$ Humason, Beckley & Co's, | Iron, Steel Points | Per dor to to to to the tag tag tagdis sakao t |
| Wrought Brass | 14, 56, 14 in., \$1.80, 2.00, 2.50 | Roggin's Latches |
| Cast Brass, Lose Joint dis 108:10 \$ Fast Joint, Narrow dis 608:10 \$ Fast Joint, Broad dis 608:10 \$ | CURRY COMBS. Fitch's new list | no Plate, \$1.10 |
| Loose Joint dis 70&10 \$ Loose Joint, Japanned dis 70&10 \$ Loose Joint, Japanned dis 70&10 \$ Loose Joint, Jap, with Acorns dis 70&10 \$ Parliament Butts dis 70&10 \$ | Hotchkiss Excelsior Superior Champion dis 95 % | Surface Chest |
| Loose Pin, no Acorn | Lawrence, "Perfect" dis 20 & 10 \$ Rubber W dos \$10.00, dis 25 \$ Sweet & Clarke dis 50 \$ Lusters dis 50 \$ Lusters dis 25 \$ \$ Clarke dis 25 \$ Cl | Saw and Plane |
| Loose Pin, Acorns | Silvered Glassnet | Hammer and Hatchet |
| Wrought Iron, | CUTLERY. Association (Table) | Auger, assorted, \$ gross |
| Fast Joint, Narrow | Wilson's Butcher and Shoe Knivesdis 30 % | Patent Auger, Douglass' |
| Loose Joint, Broad dis 60&10 \ Loose Joint, Broad dis 60&10 \ Table Butts, Back Flaps, &c dis 60&10 \ Inside Blind, Regular dis 60&10 \ Inside Blind, Light dis 60&10 \ Loose Pin, Wrt dis 60&10 \ Loose Pin, Wrt dis 60&10 \ Table Butte dis 6 | Ames' Shoe Knivesdis 15 % Wm. Rogers Mfg. Co., Plated CutleryNet DOG COLLARS. | White Mountain, per doz |
| Inside Blind, Light | Embossed Gilt | HANGERS. Barn Door, old patterns |
| Spring Hinges— Geer's Spring and Blank Buttsdis 25 \$ | DOOR SPRINGS. Torrey's Rod, regular size, \$\mathbb{R}\ doz., \$\mathbb{Z}_3\.\dis 40\text{\text{\text{K}}}\text{10} \mathbb{Z} Gem (Coil): | Climax (Anti-Friction) |
| Hart Manufacturing Codis 60&10 \$ American Spring Hinge Co'sdis 25 \$ Gem Spring Hingesdis 25 \$ | No. 1, Large Japanned Ador \$4.00) | Underhill's |
| Blind Butts, Shepard's, Nos. 50 and 60 | No. 3, Section Japanned | Namines Solve Steel Stee |
| Gem Spring Hinges | Standard—10 doz \$1.25; 9 doz \$1.75dis 60&10 \$ | |
| Standard Lull & Porterdis 75&10 % BOW PINS. Humason, Beckley & Co'sdis 55&5 \$ | 8 doz 2,50; 6 doz \$3.50 dis 60&10 \$ | Hunt's dis 30 % Russel's, low list dis 40 % Cohoes Bench Broad Adzes 40 % |
| Hotchkiss BUTCHER'S CLEAVERS. | DRAWING KNIVES. Ohio Tool Co. dis 60&10 \$\frac{1}{2}\$ Crossman's No. dis 65&5 \$\frac{1}{2}\$ Nobles Mfg. Co. 3. dis 15 \$\frac{1}{2}\$ | "Lightning" № dos \$20.00 net 5 % Wadsworth's |
| Humason & Beckley Mfg. Codis 25 ≸ Bradley'sdis 25 ≸ | Bradley'sdis 35 \$ Adjustable Handledis 20 \$ | #INGES HINGES \$,108.12 in |
| Beatty's | P. S. & W | and Strap. 114 to 30 IB C. W ID |
| American Sarres for ro dis to f | Blacksmiths' | Crown spring hinges, for screen doors, dis 60 %; for for solid doors, single action, dis 45 %; for solid doors, double action, dis 55 %. |
| No. 4, French | | Crown Screen Door Latch |
| New Idea | Breast, Bartholomew'seach, \$2.50, dis 25&10 \$ Wilson's Drill Stocks | Bickford Portable Fumpeach \$6, dis 20 A American Cake Mixer, No. 6each \$3.50, dis 20 A American Tobacco Cutter |
| U. M. C., F. C. trimmed | EGG BEATERS. Dover | A. M. Co. Clothes Wringer, No. 2 rolls, 10x1 1/4, 10 doz \$37.50; No. 23/6 rolls, |
| U. M. C., F. C. trimmed 50c U. M. C., F. L. ground 70c U. M. C., F. L. ground 70c U. M. C., Cen. fire ground 70c U. M. C., Double W. Proof \$1.40 dis 10&5 % G. D. & S. B 33c. dis 10 % E. B. 1-10, Eley's | Victoriagross, \$10,00 EMERY AND EMERY PAPER. Regular numbers | 12x1 1/4, \$48 |
| E. B. 1-10, Eley's | Flour and F. F | Heavy Welded Hook \$6613 in. \$7.50 \(\) 100 \(\) 10 \ |
| Rim die 60 d | Kettles | Wrought Strap & T list, Dec. 20, '77dis 65&10 1 |
| Central Fire, pistol «ize | Escutcheon Pins—Brass | Planters |
| " Swaged Conical | Brass Thread | Grub |
| " 32 " 10 " 15.50 " 38 " 18 " 18.00 " 41 " 15 " 17.50 | Fenn's Cork Stops dis 33 % \$ | Hubbard, Bakewell & Codis 50&10 \$ |
| CARDS. Horse and Curry, new list, July, 1881, die 10 d | Star | Ausable: Nos. 9 6 7 8 9 10 Plain, \$\mathbb{H}\text{ lb30c s7c s3c s4c s3c sscdis so&10 5 Finish'd \$\mathbb{H} lb.31c s8c s6c s5c s4c s3cdis so&10 5 |
| Cotton, new list, July, 1881 | Anchor Lockdis 45 % Metallic Key, Leather Lined | Clint'n, P'n, " 23c 21c 20c 19c 18cdis 20610 \$\footnote{E}\] Clint'n, Fin'd " 24c 22c 21c 20c 19cdis 20610 \$\footnote{E}\] Essex, \$\paralle{B}\] Essex, \$\paralle{B}\] Essex, \$\paralle{B}\] |
| Cast Steel, Polished | Cork Lined | Saranac " |
| CASTERS. dis 60 % | E. M. Boynton'snew list, dis 25 % Western File Codis 45 % | Forged & Barc also ase ase ase ase dis aostro f |
| Deep Socket | Butcher's | A. C., 4 b |
| CATTLE LEADERS. Humason, Beckley & Co's | New American | Bridgewatera6c a3c a1c a0c 19c 18cdis 30 \$ New Haven31c a8c a6c a3c a4c a3c.dis 30&10 \$ Capewell31c a6c a6c a5c a4c a3c.dis 20&10 \$ |
| P. S. & W | Union File Codis 45 % Stubs, new list | Burden W keg \$3.70 |
| Trace, Breast and Fancydis 45&5 \$ Oneida Halter Chain (old list)dis 45&5 \$ Galvanized Pump Chain | Knox, 4½-inch Rolls\$3.50 each }dis 35 % Knox, 6-inch Rolls\$4.00 each }dis 35 % Knox, 8-inch | R. I. Horse Shoe Co., Perkin's Improved, Light, Modium and Heavy keg \$3.72 % Mule Shoes keg \$4.72 ½ Walker's—Forged: (Light, Medium and Heavy.) |
| Jack Chain, Irondis 60&10 \$ Jack Chain, Brassdis 50&10 \$ | Eagle, 3½-inch Roll | Walker's—Forged: (Light, Medium and Heavy.) Horse |
| White | | Bryden Forg'd Heel & Toe Horse Shoes \$4,75\(\tilde{\pi}\) \(\tilde{\pi}\) \(\t |
| White Crayons | Crown Jeweil, 33, 6-in., \$3,40; 7-in., \$4,50 eachdis 33, \$3 American, \$5:10, \$6:10, \$3,50; 7-in., \$4,50 eachdis 33, \$5 Domestic Fluter | Diamond State Horse Shoes |
| Cotton Fish Lines | 3, \$10,50; 4, \$8.35 \$\ doz | ICE CREAM FREEZERS. |
| CHISPIS | Remingtondis 50& 10 \$ Sheble & Fisherdis 50& 10 \$ | Peerless—3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7. 8 quart, \$9; 10 quart, \$12. The Grooch Paten "Giant"—14 quart, \$20: 18 quart, \$25; 21 quart \$30; 28 quart, \$35; 32 quart, \$40; 43 quart, \$45. |
| Socket Framing, Crossman dis 65&5 \$ Socket Framing, P. S. & W dis 70&10 \$ Socket Framing, Douglass' dis 75 \$ Socket Firmers, Crossman dis 65&5 \$ | PRY PANS. Burnished list as follows | \$30; 85 quart, \$35; 30 quart, \$40; 40 quart, \$45. Discount 50 \$. American—8 quart, \$2.75; 3 quart, \$3.85; 4 quart, \$3.75; 6 quart, \$5 each |
| Socket Firmers, Onto 1001 Co dis box 10 % | Marking, Stanley's | Crown, single action, a quart, \$3.75; 3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart. |
| Socket Corner | Marking, Chapin's dis 55&10 % Wire dis 10 % Wire, Disston's dis 20 % Wire, Wheeler, Madden & Co dis 10 % | \$9; 10 quart, \$11; 14 quart, \$14 |
| I. Merrill's Socket and Framing Chiseldis 65&10 % CLAMPS. Iron, Screw, Eagle | Nail and Spikedis 40 \$ | quart, \$21; 24 quart, \$25. With fly wheel, 8 quart, \$13; 10 quart, \$16; 14 quart, \$20; 18 quart, \$30; 32 quart, |
| Iron, Adjustable, Stearns'dis 20&10 % Iron, Cabinet, Sargent'sdis 65&10 % Iron, Carriage maker's, Carr & Crawleydis 25 % | "Eureka" Gimlets dis 50 % "Diamond" Gimlets dis 50 % Double Cut. Shepardson's dis 50 % | \$37.50 |
| Norway or Best | Double Cut, Hartwell'sdis 50 % Double Cut, Ives'dis 50 % | \$9; to quart, \$11; 14 quart, \$14 |
| Superior dis 45% 5 & Conestogo dis 60% 10 \$ Coal Hods—Griffiths' dis 40 \$ Cocks, brass. | Double Cut, Douglass* | \$9; 10 quart, \$11; 14 quart, \$14 dis 55.9 Crown Ice Chipper |
| Racking, new list, July 10, 1880dis 60&10 \$\% Globe, new list, July 10, 1880 | Family, L. F. & C.'s "Handy" | Carriage, (Jap'd 80 c \$\mathbb{R}\$ gross)dis 608:10 \$\mathbb{R}\$ Base—Common |
| Plain Bibbs, new list, July 10, 1880dis 60&10 \$ Ale and Beer, new list, July 10, 1880 dis 60&10 \$ COPPRE MILLS. | Reading Hardware Codis 25&10 f | Door Por. Jap'd Door Por. Plated. Same discounts as Door Larks |
| Parker's | Eley's B. E. wads, 11 upwards | Door Por. Plated. Same discounts as 1700 Late & 1700 Por Por. The Purniture Plain. 750 gross inch, dis 10 Furniture, Wood Screws |
| Eaterprise Mfg. Codis 25 % | ** P. E. ** 11 upwards | Hemacite, Picturedis 30 to 1 |
| Compasses | HAMMERS, dis 15 % | Shutter, Porcelain |
| Cook's Pencildis 10 \$ | Hartford Hammer Codis 25 % | Melting, C & Cdis 30h 1: \$ |

| - 04 | |
|--|------------------|
| LAWN MOWERS. Acme Buckeye, Easy and Excelsior, new list, dis 40 | |
| Acme Suckeye, Easy and Excelsior, new list, dis 40 LINES. Linen Fish | * |
| Wire Clothes, Galvanized, 100 feet | 00 |
| Wire Clothes, Galvanized, 100 feet | ce I, |
| Cabinet, P. & F. Corbindis 46 | × |
| Yale Lock Co., Flat Keydis 40 Platedis 331/82 | × |
| Bradford | |
| Norwich | d |
| Russell & Erwin | 1 |
| Mallory, Wheeler & Co dis 66% \$ Norwich Lock Manf. Co and 5% for casi | h. |
| Wm. Wilcox & Codis 331/3 | × |
| Romer's dis 25@40 | XX |
| Scandinavian, "Norwich"dis 50&10 | × |
| Tomorous tem | |
| Dixon's (P. S. & W.) Nos. 1 2 3 4. Perry's, Nos. 1 2 3 4 4 gr'd 5 gr'd Each | |
| Perry's, Nos. 1 2 3 4 4 gr'd 5 gr'd Each | |
| Woodruff's (P. S. & W.)Nos. 100 130 % doz. \$15 18-dis 35: | g . |
| Ma'es' | K |
| Kieser's Gem | 6 0 |
| Beef Shaver, (Enterprise Manf. Co.)dis 25 | 6 |
| Stebbins Patterns | 8 5 |
| Beef Snaver, (Enterprise Maint Co.) | |
| Lincoln's Patterndis 60%10 9 | 6 1 |
| Hoss Japanned Finish dis 60% 10% 10 10 | 2 3 |
| Lincoln's Pattern | 1 |
| Square Nuts | |
| Zinc and Tin. dis 60&10 8 Hrass and Copper dis 50 8 Matleable (Hammer's). 34 doz \$5, dis 10 \$ | |
| Brass and Copper | F |
| Per dozen75 cts. net | F |
| Astor Plaiting Machineeach \$15, dis 20 \$ Crown Plaiting Machinesdis 25 \$ 6 in., \$6; 10 in. \$8 each. | F |
| PLANES AND PLANE IRONS. Bench, First Quality | 1 |
| Bench, First Quality. dis 20 % Bench, Second Quality. dis 25 % Molding. dis 15 % Bailey's (Stanley R. & L. Co.) New list, Jan. | J |
| TO CONTROL OF DE LA CONTROL DE LA SOCCIONA | 12 |
| January 1879 | B |
| Plane Irons, Auburn Tool Co | H |
| Interview Parent The Stanley (S. R. & L. C.), new inst, January 1879 | J: |
| Hall's Pat Compound Laver Cutting Number | S |
| No. 2, 5 in. \$13.50; No. 4, 7 in. \$21 \$\frac{1}{2}\$ dozdis 25 \$\frac{1}{2}\$ Gas Pliers | |
| Disston's | P |
| Chapin's Patent Adjustable | 1 |
| Standard Rule Co.'s New Adjustabledis 65&10 % Standard Rule Co.'s Non-Adjustabledis 65&10 % Pocket Levelsdis 65&10 % | N |
| DAIT | NNN |
| Sliding Door, Bronzed Wrt. Iron 18 ft. 12c. dis 35 % Sliding Door, Iron, Painted 18 ft. 4c. dis 10&10 % | N |
| Sliding Door, Wrought Brass | N |
| Per 100 feet | N |
| I I I I OO II | N |
| Iron and Tinned, new list, Dec. 10, 1881 | N |
| № 18 49C, 50C, 52C, 54C, 56C, 58C, 60C, 65C, 70C, RIVET SHTS | No |
| Stair, Brass | No |
| Boxwood, Ivory. | Ar |
| Chapin's | Pr Ba |
| Stevens & Codis 70&10%. Ivorydis 50 % Stevens & Co. Miscellaneousdis 50%10 % | M: Se |
| Stevens & Co. Miscellaneousdis 50&10 % SAD IRONS. Self-Heating, Charcoal | Jei J. |
| Enterprise Star Irons, new list, July 20, '82dis 35 % Comb'd Fluter and Sad Iron A doz \$15.00, dis 15 % | Sli |
| Common Sad Irons | Sli |
| Baeder & Adamson's Flint, 2, 2/82, 5,00 % r'm. Baeder & Adamson's Flint, 2, 2/82, 5,00 % r'm. Baeder & Adamson's Flint, 3, 2/82, 5,00 % r'm. Baeder & Adamson's Flint, 4,50 % r'm. Baeder & Adamson's Star. 3,75 % r'm. Baeder & Adamson's Emery P r'm \$6.50@11.50 J. Bartle's Sand, Flint and Emery Paperdis 30&5 \$ | Sli |
| Baeder & Adamson's Star | An |
| J. Bartle's Sand, Flint and Emery Paperdis 30&5 \$ SASH CORD. Common | Re |
| Patent Braided Lake Hemp Bb, 17c@18c. net | Kir Lip Hu |
| Silver Braid, Lake White Cotton, \$\ \mathbb{B}\ \mathbb{D} \sqc. dis 10 \forall Silver Lake Cable Laid. Bengall Unbleached | Boi |
| Hemp, 17 cts | Ste |
| Common SASH CORD. Common Patent Pate | Do |
| Solid Eyes, in 500-fb. lots and over, & fb. 14c. net | Ho Bro |
| Miles & dos. \$20, dis 25&5 \$ | Ro |

| | BALTIMORE MANU | I |
|--|--|--|
| | Enterprise Mfg. Codis 25 Monarchdis 40 | 20.00 |
| | Enterprise Mfg. Co | 111111111111111111111111111111111111111 |
| | Hubbard, Bakewell & Co., Mill Sawsdis 40&5 Peace Circular and Milldis 40 Peace Hand, Panel and Ripdis 25 | × × × |
| - | White | K |
| The state of the s | Stillman's Genuine, \$\frac{1}{3}\text{ dot \$\frac{3}{3}\text{,50} and \$\frac{5}{3}\text{,50}\$. dis 10 3 Stillman's Imitation \$\frac{1}{3}\text{ dot \$\frac{3}{3}\text{,35}\text{,30}\text{,30}\text{,30}\text{,30}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,10}\text{,30}\text{,30}\text{,10}\text{,30} | 2222222 |
| The state of the s | Peace Band Saws, all widths dis 395 Peace Band Saws, all widths dis 395 STORTO (Criffin's Hack Saws and Blades dis 395 SAW FRAMES. White | CE CE CE LA CE |
| | Adjust. Box Scraper (S. R. & L Co.) \$6.50, dis 20&10 \$180x, 1 Handle \$1 doz \$4, dis 10 \$180x, 2 Handle \$1 doz \$4, dis 10 \$180x, 2 Handle \$1 doz \$5, dis 10 \$150x, 2 Handle \$1 dis 10 \$150x, 2 Handle | |
| | Douglas Mfg. Co. dis 20&10 | |
| 1 | Bench, Wood, Beach | |
| 0. | Jack (Wilson's) | |
| nnnn | FARE DZ. SETS. In Im. Bl'k White. Walnut. | |
| ħ | to a Corners and Sticks complete for a) | |
| N | three-foot window, \$\begin{align*}{cccccccccccccccccccccccccccccccccccc | |
| | 10. 279. Door, # doz sets, #roazed, # 56,75; Nickel, #15.00 10. 3. " # doz sets, #roazed, # # doz sets, #roazed, # # # # # # # # # # # # # # # # # # # | |
| M | merican (Cast) Iron. dis 70&10 \$\frac{1}{2}\$ (dis 70&10 \$\frac{1}{2}\$) (ming). see Pruning Hooks and Shears arnard's Lamp Trimmers. \$\frac{1}{2}\$ doz \$\frac{1}{2}\$, dis \$\frac{1}{2}\$ (assachusetts dis \$\frac{1}{2}\$ 0&10 \$\frac{1}{2}\$ | |
| | cymour's | |
| | mes, New List, July 1, 1887 dis 15 % riffiths dis 20 % 5 % semington's (Lowman's Patent) dis 20 % owland's dis 60 % imballs dis 35 % ippincott, new list dis 20 % ussy, Bins & Co dis 15 % SPOKE TRIMMERS. | |

| SILVER PLATED HOLLOW WARE. |
|---|
| Wm. Rogers Manf. Co dis 40 7282 5 |
| Wm. Rogers Manf. Codis 40, 13&5 \$ Meriden Brittania Co dis 33½ \$ |
| SPOONS. |
| Britannia |
| Tinned, Iron, Table and Teadis 65 % |
| Common Silver |
| German Silverdis 40 % |
| STONE. |
| Hindostan No. 1, 5c.; Axe, 8c |
| Sand Stone 8 b., 6c., dis 311/8/10 \$ |
| Washita Stone |
| Washita Stone, Slips No. 1, W B., 45c. net. |
| Arkansas |
| |
| Cond. |
| Steeldis 50 %; full cases, dis 50& 10 %) |
| irondis 50 %; full cases, dis 50% 10 % |
| Nickei Plated add \$2.508 \$4 \$4 doz net.) |
| Steel |
| Disston's Try Square and T Bevelsdis 40 % |
| American Iron Carpet Tacks oll binds |
| American Iron Carnet Tacks all kinds 6- # |
| St. el Carnet Tacks all kinds |
| Swedes Iron Carnet Tacks all kinds |
| Swedes Iron Tacks |
| Swides Iron Upholsterers' Tacks 60 6 |
| Linned Swedes Iron Tacks |
| Linued Swedes Iron Upholsterers' Tacks |
| American Iron Cut Tack |
| imp and Lace Tacks |
| T ned Gimp and Lace Tacks |
| Copper Tacksss % |
| Copper Finishing and Trunk Nails 55 % |
| i ar Box Na ls 50 \$ |
| Finishing Nail50 \$ |
| line Glaziers' Poin s50 \$ |
| mmon and Patent Brads50 \$ |
| fungarian Nails and Miners' Tacks |
| runk and Clout Nails40 % |
| linned Trunk and Clout Nails 40 % |
| lasker Nails 40 % |
| hair Nails 40 % |
| I meed Capped Trunk Nails30 % |
| ooking-gla s. Facks |
| ture Frame Points30 \$ |
| Cathered Carpet Tacks 30 % |
| TUSH TACKS 30 % |
| TAP BORERS. |
| ommon and Ring |
| ves' Tap Borersdis 15&10 \$ |
| interprise Mfg. Codis 25 \$ |
| |
| - TOBACCO CUTTERS. |
| interprise Mfg. Co (Champion) |
| oud Bottom |
| Il Iron doz \$9.50, dis 40&5 \$ |
| \ ilson'sdis 35 \$ |
| THERMOMETERS, |
| in Casedis 75&10 \$ |
| torm Classes |
| torm Glasses\$3.25 \$\mathbb{H}\text{ doz.} |
| TOR CALKS. |
| insted |
| tame, Newhouse |
| ame, Newhousedis 35 \$ |
| anie, Oneida Pattern,dis 608 10 % |
| ame, Blake's Patentdis 40% 10 % |
| louse, Wood, Choker |
| louse, Round Wire M doz \$1.50, dis 10 \$ |
| louse Cage, Wire A doz \$2.50, dis 10 \$ |
| louse, Catch-em-alive B doz \$2.50, dis 10 \$ |
| yclon Mouse A doz 75 cts. |
| ame, Hake s Patent dis Socio \$ louse, Wood, Choker \$\mathre{n}\$ doz \$1.50, dis 10 \$ louse, Round Wire. \$\mathre{n}\$ doz \$1.50, dis 10 \$ louse Cage, Wire. \$\mathre{n}\$ doz \$2.50, dis 10 \$ louse, Catch-em-alive \$\mathre{n}\$ doz \$2.50, dis 10 \$ louse, Catch dis \$1.50, dis 10 \$ louse, Catch dis \$1.50, dis 10 \$ louse, Catch dis \$1.50, dis 10 \$ louse \$1.00 \$\mathre{n}\$ doz \$2.50, dis 10 \$ louse \$1.50, dis 10 \$ \text{louse}\$ doz \$2.50, dis 10 \$ \text{louse}\$ doz |
| |

| - 1 | |
|-----|--|
| | Rat, "Decoy" |
| | Lothrops' Brick and Plasteringdis 25 \$ |
| 6 | Reed's Brick and Plastering |
| 1 | Clement & Maynard'sdis ao 4 |
| 5 | Worrall's Brickdis an & |
| 5 | Lothrops' Brick and Plastering dis 25 g Reed's Brick and Plastering dis 25 g Reed's Brick and Plastering dis 25 g Clement & Maynard's dis 20 g Clement & Maynard's dis 20 g Worrall's Brick dis 20 g Brades & Walby's dis 25 g Garden dis 55 g |
| . 1 | |
| | TRUCKS (WAREHOUSE, &C.) Handy Truck. \$2.50 net Penfield Block Co.* list, 188a dis 35 % Peerless, with Cogs, No. 3 \$4.00 Peerless, with Cogs, No. 4 \$6.00 Eureka, No 9 \$6.00 |
| П | Handy Truck |
| 1 | Penfield Block Co. list, 1882dis 35 \$ |
| . 1 | Peerless, with Cogs, No. 354.00 |
| 1 | Peerless, with Cogs, No. 4 |
| -[| Eureka, No. 2 |
| -1 | VISES. |
| - | Cheney's Combined Vise and Anvildis 25 % |
| 1 | Solid Box—Wilson'sdis 50 \$ |
| 1 | rentondis 45 % |
| 1 | Cremey's Combined vise and Anvil dis 25 |
| 1 | Bench—Wilson'sdis 45 % |
| 1 | Darker's |
| 1 | tf Dennies die |
| ı | H Ronney's die as d |
| 1 | Prentiss |
| 1 | The state of the s |
| 1 | WIRE. |
| 1 | Brass and Copper, list of Jan. 17, 1884dis 15 % |
| ı | Bright and Annealed Nos. of 18, dis 50& 10 \$ |
| 1 | Fright and Annealed Nos. 19@20, dis 60&10 \$ |
| ı | Fright and Annealed |
| 1 | Coppered |
| 1 | Timust Nov. o. to 18 |
| 1 | Linual Errom Wire Nos 18 to 20 die 60 g |
| 1 | Annealed Fence Nos 880 dis es s |
| ı | Annealed Grane, Nos. 10 to 14dis sofero s |
| 1 | Fence Staples, Galvanized |
| ı | Japanned Barb Fence B B 6 c |
| Н | Galvanized Barbed Fence B 51/c |
| 1 | Buck Thorn Galvanized B b 6c |
| 1 | Picture Wiredis 40 \$ |
| П | Clothes Line Wire, Galvanized\$2.75 \$ doz |
| ı | Brass and Copper, list of Jan. 17, 1884 |
| 1 | WRENCHES. |
| Ь | American Adjustabledis 45 \$ |
| l | l'axter's Adjustable "S," list Jan., 1880dis 2085 \$ |
| ŧ | Paxter's Diagonaldis 20&5 \$ |
| | |
| | Coes Genuinedis oo s |
| | Coes "Mechanics"dis 60% 10 % |
| | Coes' "Mechanics" |
| | Coes Genuine dis 60 % Coes 'Mechanics' dis 60 % Coes Pattern, Malleable dis 75 % Coes Pattern, Wrought dis 60 % 10 % |
| | Coes' Genuine dis 60 % Coes' "Mechanics" dis 60 % to % Coes' Pattern, Malleable dis 75 % Coes' Pattern, Wrought dis 60 % to % Girard Standard dis 20 % to \$ |
| | Coes Genuine |
| | Coes Genuine |
| | American Adjustable |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | WRINGERS. Per doz. Universal, X X, No. 2½. 33.00 Universal, X X, No. 1½. 33.00 Universal, X X, No. 1½. 50.00 Universal, X X, No. 1½. 50.00 Universal, X X, No. 12. 66.00 Peerless, no. 10. 67. 67. 67. 67. 67. 67. 67. 67. 67. 67 |
| | WRINGERS. Per doz. Universal, X X, No. 2½ |
| | WRINGERS. Per doz. Universal, X X, No. 2½ |
| | WRINGERS. Per doz. Universal, X X, No. 2½ |
| | WRINGERS. Per doz. Universal, X X, No. 2½ |
| | WRINGERS. Per doz. Universal, X X, No. 2½. 33.00 Universal, X X, No. 1½. 33.00 Universal, X X, No. 1½. 50.00 Universal, X X, No. 1½. 50.00 Universal, X X, No. 12. 66.00 Peerless, no. 10. 67. 67. 67. 67. 67. 67. 67. 67. 67. 67 |

Hartford Silver Metal

We are now able to offer our customers a

Substitute for Solid Silver and Silver-Plated Ware

that is perfectly reliable and will wear a life-time. The points of merit of this new article are: the Metal is very nearly AS WHITE AS SILVER; it is the SAME METAL ALL THROUGH; there is NO COLORING OR PLATING ABOUT IT; it costs about ONE-THIRD as much as Silver-Plated Ware; with the same care it will give as good satisfaction as Solid Silver or Plated Ware.

Don't Fail to Send for a Sample Lot of This Ware and Try It!

Our line of SILVER-PLATED HOLLOW and FLAT WARE is as extensive as ever. We are continually adding new designs, and should be pleased to submit them to our customers.

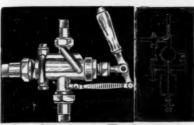
REMEMBER!

We Guarantee all Goods bearing our Trade Mark.

The WM. ROGERS MFG. CO.

Drawer 30,

HARTFORD, CONN.



Buckeye * Injectors,

For circu-lars address CROSBY BROS, & CO.

J. H. RATTERMANN,

5 % .00

FRED BUSSE, Sec'y & Treas'r, F. G. DUERR, Vice President.

The U.S. Varnish Co.

CINCINNATI, - - - OHIO. 258 and 260 Colerain Avenue.

CHICAGO BRANCH, . . No. 47 STATE STREET.

PATENTS

PROCURED, REJECTED APPLICATIONS
AMENDED AND PROSECUTED, INVENTORS DRAWINGS MADE.
NO MODEL REQUIRED.

J. A. HURDLE,

Tribune Building. - - New York.

For Sale

1 '50 Horse-Power Engine and Boiler, with Fittings.

3 Spoke Lathes (made by Gleason, Philadelphia.)

About 40 Pulleys.

80 feet Shafting and Couplings for same.

Saw Arbors, Boxes, a Facer, Tenoner and Throating Machine for the manufacture of Spokes.

1 (new) 25 horse-power engine, boiler and pump; never been used.

A bargain to any one wishing to buy either as a speculation or for use.

Address E. T. ROBARDS, Sec'y,

Henderson, Ky

COMMON SENSE ENGINES.







COMMON SENSE ENGINE CO., Springfield, Ohio.

Sigourney Drill.

Perfect, Sensitive and Strong. Interchangeable, and has a Capacity unequalled.

The Sigourney Tool Co. MANUFACTURERS OF

Special Machinery and Tools OF THE FINEST QUALITY. HARTFORD, - - CONN

Baltimore Agents, Morror, REED & Co., 58 German Street.

Business Chances.

*For the purpose of making the MANUFACTURERS' RECORD a still MANUFACTURERS' RECORD a still more valuable medium of communication between its readers North and South, we will publish, FREE OF CHARGE, short advertisements, not exceeding 40 words, from those in the South who have mills, factories, manufacturing sites or water-power for sale, capital wanted for industrial enterprises, &c., &c.; while readers in other sections who desire to engage enterprises, &c., &c., twhite readers in other sections who desire to engage in manufactures at the South are also invited to use these columns, without cost, either in seeking information regarding the advantages and special claims of different localities, or for asking about good openings for men and money. This department is also free for Southern manufacturers who wish to advertuse for mill managers superintendents, engineers, &c.

In corresponding with any of these advertisers please mention the Baltimore Manufacturers' Record.

BEING interested in quarrying fine Tennessee marble, I would like to correspond with some on having experience in sawing marble and with capital to invest, with a view to erecting a mill in connection with quarry. Address P. O. Box 72, Rogersville, Tenn.

ATLANTA.— Wanted party with \$3,000 to \$5,000 to join practical man in starting soap factory in this growing city; one who can sell goods and manage outside business. This is a fine opening. Address L. E. Boswell, Atlanta, Ga.

PARTNER WANTED to take an interest in a profitable manufacturing business in Middle Georgia. To a man with \$5,000 on more seeking investment and employment or investment alone, this is a fine opportunity. Address F. S. C., Macon, Ga.

PARTNER WANTED with \$5,000 to start a stave factory by parties representing over \$0,000 in real setate and having ample experience. A large profit can be made. Will guarantee the investment and 8 \$ per annum. Address Enterprise, Lock Box 27, Warrenton, Va.

WANTED—A position in a sash and blind factory as foreman or master-workman; 12 years' experience; well up in all kinds of wood-working; can give best recommendations. W. T. L., care MANUFACTURERS'

RECORD.

TO SOAP MANUFACTURERS.—The location of a soap manufactory is desired in a live and growing Southern city of 10,000 inhabitants, situated at the junction of two trunk lines of railroad, in the best section of the South, entirely free from malaria or epidemics. To a thoroughly practical man competent to manage the business and able to furnish half the capital required for a respectable establishment, inducements will be offered. Address Oil Mill, care MANUFACTURERS' RECORD, Baltimore, Md.

WANTED—Rya a fad an opportunity in the South

WANTED—By a fad, an opportunity in the South learn the machinist's trade. Address Trade, care lanufacturers' Record.

MANUFACTURERS' RECORD.

WANTED.—A party with \$3,000 to \$5,000 capital and a knowledge of manufacturing agricultural implements; business already established; one of the best locations; a good chance for a safe and profitable investment; the machines are covered by five patents, and well tested by 3 years actual use, and an increasing demand. Investigation solicited. For particulars, address A. C. Hendricks, Shenandoah Junction, W. Va.

W. Va.

SITUATION WANTED.—A young man having some education and experience in mechanical engineering, desires location South. Resigned position North to recover health impaired by severe Northern winters. Prefers subordinate pasition, as assistant to foreman or superintendent, with prospect of advancing. Address Engineer, care MANUFACTURERS' RECORD.

RECORD.

WANTED.—By young man, situation as assistant draughtsman with machine shop, mechanical engineer, mechanical draughtsman, or patent solicitor. Graduate of scientific school Machine shop and engineering experience. Address A. W. Chase, No. 76 Washington street, Providence, R. I.

NEWSPAPER FOR SALE.—A weekly newspaper with complete outfit, as good as new, in c se of the most prosperous towns in the South. For particulars, address Newspaper, care Manupacturers' Record.

RECORD.

A MANUFACTORY, with established business, desires to increase the capital stock. Money wanted to extend the business. This is a good chance and will bear investigation. Would like a competent man for office or works. For particulars address Lock Box 102, Chattanooga, Tenn.

WANTED by a machinist with an established business, a partner with \$3,000 to \$5,000 capital, to start a machine shop and to handle machinery. One of the best locations in the United States. Ampl business already promised; room for almost unlimited development. Location, a vigorous and progressive Southern town; perfectly healthful. Investigations solicited. Address Machinist, care Manupacturems? Record.

Solicited. Address machinist, care manufacturers? Record.

TURNER WITH LATHE WANTED.—Will furnish Hickory, Dogwood, Persimmon and Walnut waste, suitable for Handles, etc., with power, house, and garden plat for part of product. Address M. F. J., care Manufacturers? Record.

WANTED—A partner in a steam saw mill; well timbered with best yellow pine. This mill is located on the Memphis & Charleston Railroad, one hundred and nine miles from Memphis, Tenn. Address G. N. Harvey, Burnsville, Miss.

WANTED—A situation as superintendent or fore man in a hub, spoke or axe handle factory. Have had 12 years experience. Good references. P. O. Box 213, Columbus, Miss.

FOR SALE.—A very fine water power and an iron bloomery; convenient to W. & A. R. R., 45 miles north of Atlanta, Ga. Also have on hand 12,000 bushels of charcoal; all necessary machinery for making wrought scrap, pig iron and ore blooms; machinery all in running order; never failing water power; good healthy mountainous country; very best freestone water; fine mill site. Will sell all very cheap for cash. Address W. W. Wheeler, Stegall's Station, Ga.

WANTED—A manager for a canning factory to be arted in the South. A good opertunity for a first-ass man. Address O, S, care MANUFACTURERS' RECORD.

HAVING the requisite practical and some business experience, and an acquaintance that would be useful, I would like to engage with some cotton mill to take charge. Address A. E., care of MANUFACTURERS' RECORD.

AN ENGINEER and draughtsman wants position where his experience in managing men, designing and constructing machinery of various kinds can be given a trial, in a machine shop, mill or gas works. Address Engineer, 547 Lafayette avenue, Brooklyn, N. Y.

A SCOTCHMAN of 20 years experience in the cotton and woollen manufacturing trade, is open for engagement as manager, or in any capacity where his experience and practical knowledge would be required. Is thoroughly posted in all details. Address W. M., care MANUFACTURERS' RECORD.

WANTED—A practical bucket maker. To the tight sort of a man who has had experience in working cedar and white pine, and can run a shop successfully, a good inducement will be offered. I arker Manufacturing Company, Knoxville, Tenn.

\$1,500 WILL BUY A WEEKLY NEWSPAPER;
7 column folio; complete outfit and a good job office;
only paper in place; well patronized and paying;
reason, other business. Address E. D. Steele, High
Point, N. C.

WANTED—By an energetic, live young man a artner with \$10,000 to \$20,000, to engage in the obacco business in Piedmont, North Carolina. Ber freference given, showing him qualified to handle usiness. Address Tobacco, care Manufacturars'

FOR SALE.

A Portable so Horse-Power Engine and Saw Mill, with large lot of timber, if desired, within 6 miles of Farmville, and 3 from railroad. Also one 8 Horse-Power Portable Engine, on skids, Horizontal Boiler, Talbott's make. It is now mounted on truck and used for threashing wheat. Address

FARMVILLE MANUFACTURING CO.,

Cotton Batting Machinery FOR SALE

8 36-inch Roller Batting Cards, with Lapper ress and Grinder. All complete and in good

COLLINS ARNOLD,

Machinery Agent, 415 River Street, TROY, N. Y.

FOR SALE.

A Cotton Seed Oil Mill situated in the heart of the cotton region of Texas. The machinery is comparatively new and is in first-class con-dition. Rairroad side track runs to the doors. Any one desuring to invest in this class of prop-erty should address—

Jas. H. Simpson Bank, Columbus, Texas.



The Thomas Bradford Co.,

THOMAS BRADFORD & CO.
Manufacturers of the celebrated bradford's Portable Underted bradford's Portable Underted bradford's Portable Underand middlings. First premium
at Cincinnati Industrial Exposition, 1884. Send for illustrated catalogue. Address plainly
THE THOMAS BRADFORD Co., 178,
178 & 178 W. Second St., Cin., O.



Send for circulars; Gratis. Send to cents for Book of Rules.

THE LIGOWSKY Clay Pigeon Co. Box 1,292, Cincinnati, Ohio.

FORTRESS MONROE, NORFOLK and the SOUTH.

The Bay Line comprises the New and Elegant Ster "VIRGINIA," "CAROLINA" and "FLORIDA."

All the Comforts and Luxuries of a First-Class Hotel are afforded the Traveler. Spacious and Elegant Saloons and Staterooms, furnished with an especial view to comfort. Unsurpass-ed Cuisine, which is made a specialty with this Line. Elegant service and courteous attention. Steamers leave Baltimore daily except Sundays at 9 P. M.

Steamers leave Baltimore daily except Sundays at 9 P. M.
At Old Point Comfort is located the SPLEN-DID HYGEIA HOTEL, a Delightful Resort at all Sensons of the Year. For Tickets and Information, apply at Company's office,

157 W. BALTIMORE ST., BALTIMORE, Or on Board of Steamers.
D. J. HILL, Superintendent.
E. BROWN, General Ticket Agent.

Architectural Iron Works.

J. P. WALTON & CO. CINCINNATI, OHIO.

Manufacturers of all kinds of IRON WORK for building purposes,—Store Fronts, Columns, Lintels, Joiats, Staiis, Railing, Roof-Trusses, Doors, Shutters, etc. Jail work a specialty. Write us for catalogues.



Established 1867.

E. Harrington, Son & Co. MANUFACTURERS OF

PATENT EXTENSION and SCREW-CUTTING LATHES,

Iron Planers, Radial, Upright, Suspension, Multiple and Lever

DRILLS, and a variety of other MACHINISTS' TOOLS

Patent

Double Chain Screw
Pulley Blocks.
Unrivalled for Durability,
Safety and Power.
Patent Double Screw
Quick-Lift Hoists,
with brake for quick and easy
lowering.
SerCirculars furnished.

Works and Office, Cor. N. 15th and Penna. Ave., Philadelphia, Pa. Represented by J. Q. MAY-NARD, 12 Cortlandt St., N.Y.;

Philadeipnia, Fa.
Represented by J. Q. MAYNARD, 12 Cortlandt St., N.Y.;
C. E. KIMBALL, 93 Oliver
St., Boston; W. H. RICKEY,
116 Main St., Cincinnati.



April OVER 6,000 N 工工 GVa July 1876

Adapted for Warehouses, Stores, Fac otels. Public Institutions, and every here merchandise, &c., is transferred fro

JAMES BATES, Patentee, Nos. 1 3 & 5 President Street. BALTIMORE.

THE BRADSTREET Mercantile Agency

HAR NOW BEEN

Under its present successful management for the past seven years,

the past seven years,

And during that time its business has more than trebled, while its facilities have proportionately increased.

No expense is considered too great in obtaining and applying to the conduct of the business all possible improvements. With its present system for obtaining and promulgating information, this Agency is justly regarded by its patrons as authority on all matters affecting commercial credit. Its ramifications are greater and its business larger than any similar organization in the world conducted in one interest and under one management.

You are respectfully invited to investigate, and if in need of an Agency, to test its ability to serve you.

CHAS. P. CLARK, President.

CHAS. P. CLARK, President. Baltimore Office,-American Building, H. KERSHAW, Supt



Send for Catalogue. Chandler & Farquhar, 168 Devonshire 8t BOSTON, - MASS. Tools & Supplies OF MECHANICS AND MANUFACTURERS.



TOOLS for Machinists. Amateurs, Jewellors, Mode Sakers, Blacksmiths, Carpenters, Coachmakers, etc. Jone 20 Metal Worker Catalogus, 80 Sept. CALLMAN & McFADDEN, Philadelphia, Fo.







WRITING MACHINE DROP CABI

This Desk combines two things in one: When closed it is an ordinary Flat-Top Desk covering and protecting the Machine, and when open is a complete Writing Machine Desk. Send for Circular.

Address W. H. TRAVIS, Manufacturer, 1003 Chestnut St., Philadelphia,

Ore Pulverizer and Amalgamator Combined.

The cost of this Mill is much less than any other machine of sufficient capacity to do the same amount of work.

It requires less power to run it, (10-horse being sufficient.)

The wear and tear of the Mill is much less than any other Quartz Mill doing the same amount of work, and the quality of the work done by it is greatly superior to work done in any other Quartz Mill now in use.

It crushes to a uniform fineness and makes no slimes, so that no sizing is required for concentration.

The Mill is equally well adapted to crushing and pulverizing of all classes of ores, either for amalgamation or concentration, and will pulverize and amalgamate from one-half to one ton per hour, according to character of ore and fineness of screens.

With ordinary care there is no loss of mercury by flouring, and consequent loss of gold, as in most other Mills where mercury is used in the Mill.

Amalgamation is carried on in the same operation with the crushing. mercury is placed in the Mill in quantities varying from 10 to 40 pounds.

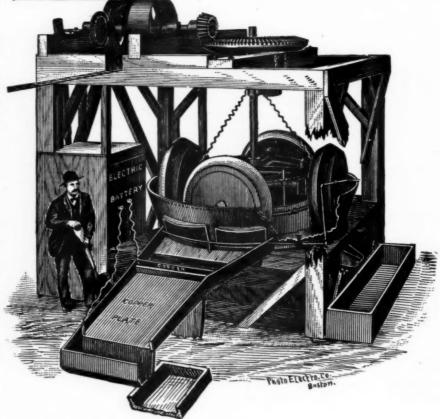
The application of electricity to the Mill for the purpose of cleaning and keeping the mercury alive has been to a very large extent superseded by the invention and introduction of the Mercury Trap in the Mill for the purpose of drawing off the mercury when charged with gold or on the slightest indication of flouring. By this ingenious device the mercury can be changed as often as desired without loss of time in either crushing or amalgamating. By opening this Trap the amalgam is discharged from the Mill in three minutes, and clean mercury introduced in its place.

To those familiar with running a Gold Mill this latter advantage will be greatly appreciated; in fact, it gives the mill-man full control of his work.

This Mill has been on exhibition at the foundry of Messrs. Bisbee & Endicott, at Chelsea, Mass., for the past 18 months, a good part of the time in active

operation, and we have treated the most rebellious ores from many mining districts with most satisfactory results to the parties concerned.

The past year we have sold many Mills, which may be found in Michigan, North Carolina, Dakota, Montana, Idaho, Colorado, California, Mexico, Nova Scotia, etc. All those in operation are giving the most perfect satisfaction, as testimony will prove, and we will take pleasure in referring to any one of these on application.



We Furnish a Complete Mill for \$2,500, Delivered on Board Cars.

MINING MACHINERY COMP'Y,

A. A. REEVE, Treasurer.

4 POST-OFFICE SQUARE, BOSTON.

TO STEAM USERS.

emove and Prevent Scale in any Steam Boiler, or make no charge. My Remedy will also Neutralize the most destructive waters, and prevent GROOVING, PITTING, AND WASTING OF IRON, @PP



PAINTS, OILS, &c.

| | Turpentine # gr |
|--|--|
| DAINTS | Chalk |
| FOLEP 13. | Chalk, block Dryer patent Am'nasst'd cans, 8c; 1 Frostings Glue, white |
| Black Lamp, coach painters | Frostings. |
| Black Lump, Ordinary | Glue, white |
| Riack I warm Drop, harr | |
| Black Paint, in oilkegs, 6c; assorted cans, 9c | Glue, ordinary. Glaziers' Points, zinc |
| Blue Prussian, fair to best30@400 | Glaziers' Points, zinc |
| Blue Pragrian: fair to best, in oil | Gum, Copal |
| Blue Chinese, dry700 | Gom, Damar |
| Blue Ultramarine | |
| Brown, Spanish | |
| Brown, Van Dycke., | → METALS. >- |
| Green chrome in all | THE LANG. |
| Green, Paris good ence hest exc | |
| Blue Ultramarine, 15@25c Brown, Spanish | TIN PLATES. |
| Iron Paint, bright red 8 th 25c | TIN PLATES. |
| Iron Paint, brown Bb 116c | |
| Iron Paint, purple B b 3c | BLOCK TIN. |
| Iron Paint, ground in oil, bright red 1 15 5%c | "Lamb and Plag," and "Straits." |
| Iron Paint, ground in oil, red | Large Pigs |
| Iron Paint, ground in oil, prown | Small Pigs |
| Linseed Oil raw | Bars |
| Single Boiled | TINNERS' SOLDER. |
| Double " sec | No. 1 Refineg |
| Mineral Paints 2(840 | No. 1 Refineg |
| Orange Mineral100 | Strictly Half-and-Half |
| Red Lead, American | ROOPING PLATS. |
| Red Venetian, (English) dry \$1.50 to \$1.75 | It' 14820, Choice Charcoal Terms |
| Red Indian, dry | IX, 14890, " " " |
| Rose Pink | IC, 20x28, " " " |
| Sienna, American, raw40 | IX, 20x28, " " |
| Sienna, Burnt | IC, 14x20, Choice Charcoal Terme |
| Sienna, burnt, in oil8@150 | ing, genuine ou style reurppeu. |
| Sienna, raw8@150 | IX, 20X28, " " " |
| Umber, burnt4@8c Umber, burnt, in oil8@15c | COKE PLATES. IC, 10x14, bright, "H. V." grade IC, 14x20, " IX, 14x20, " IC, 10x90, Gutters |
| Umber, raw3½@7½c | IC same " grade |
| Umber, raw, in oil | 1X 14820. " |
| Vermilion, Chinese | IC, 10x90, Gutters |
| Umber, raw, in oil | SHEET ZINC. |
| Vermilion, American, common150 | |
| White Lead, American, pure dry61/ @63/c | In casks of 600 fbs., \$\bar{\pi}\$ fb |
| White Lead, American, pure in oil | TIN PLATES. |
| Vellow Ochre French | IC, sox14, Charcoal |
| Yellow Ochre, French | IV !! |
| Yellow Ochre, American in bbls., 11/61/40 | IC. 12×12. " |
| Vellow Chrome | IX, 12X12, " |
| Yellow Chrome, in oil | IC, 14820, " |
| Zinc White, American, No. 1, dry | IX, 14×20, " |
| Yellow Chrome, in oil | IX, 10X14, IC, 12X13, III, 12X13, III, 12X13, III, 12X13, III, 14X20, III, III, III, III, III, III, III, I |
| Zinc White, French in oil | IXXXX, 14x20, " |
| | 1X. 20328. " |
| OHAS. | DC. 100, Plate " |
| Bleached W. Sperm oil | DX, 100, " " DXX, 100, " " |
| Nat. " " " 95@1 00 | DXX, 100, " " |
| Bleached W. Sperm oil | DXXX, 100," " " |
| Whale oil 68(0) 70 | BARRITT METAL. |
| Prime Lard oil | DC, 100, Plate " DX, 100, " " DXX, 100, " " DXXX, 100, " " DXXX, 100, " " BABBITT NETAL No. 1 Ordinary. |
| Lubricating oils | |
| Miners' oil 45@ 55 | Excelsior Rabbitt Metal, No. 2 |
| W. Pressed Fish cil 3500 - | Excelsior Babbitt Metal, No. 2. |
| Neatsfoot oil | LEAD. |
| Steam-refined Cylinder oil | Pig |
| Hest Filtered II II 6.0 | |
| The state of the s | Bar, (15 02. Dars) |
| Signal oil 55@ - | Bar, (15 oz. bars) |
| Signal oil | Sheet |

| Benzine | 39: 39: 36: 36: |
|---|--------------------------|
| →METALS. | |
| TIN PLATES. | |
| BLOCK TIN. | |
| "Lamb and Flag," and "Straits." | |
| Large Pigs | 25 |
| TINNERS' SOLDER. No. 1 Refined | 13 |
| Strictly Half-and-Half | 10 |
| It' taxen Choice Charcoal Terms | 5 50 |
| IC, 14x20, Choice Charcoal Terne | 7 25 |
| IX, 20x28, IX, 20x28, Extra fine quality, charcoal roofing, genuine "old style" redipped. IX, 20x28, | 14 90 |
| 1X, 20X28, | 18 00 |
| IC, 10x14, bright, "B. V." grade | 5 00 |
| IC, 14x20, " | 5 00 |
| CORE PLATES. IC, 10X14, bright, "B. V." grade. IC, 14X20, " IX, 14X20, " IC, 10X20, Gutters. SHEET ZING. | 8 75 |
| In casks of 600 fbs., # fb | 5% |
| TIN PLATES. | 1 |
| IC, 50814, Charcoal | 5 50 7 50 |
| | 5 70 |
| IX, 12X12, " | 7 70 |
| IX, 14×20, " | 7 50 |
| IXX, 14x20, " | 9 50 |
| IXXXX, 14320, " | 13 50 |
| IX, 20x28, " | 18 00 |
| DX. 100, " " | 5 50 |
| DXX, 100, " " | 9 55 |
| DXXX, 100," " | 9 55 |
| A 1 | 15 |
| IX, 12X12, " IC, 14X20, " IX, 14X20, " IXX, 14X20, " IXXX, 14X20, " IXXXX, 14X20, " IXXXX, 16X20, " IX, 20X28, " DC, 100, Plate " DX, 100, " DXX, 100, " DXX, 100, " DXXX, 100, " DXXX, 100, " BABBITT METAL A 1. No, 1 Ordinary Antimony | 0 |
| Excelsion Rabbitt Metal, No. 2 | 18 |
| Antimony | 9 |
| LEAD. | |

| | COPPER. Tinned Sheathing, 14x48, 14, 16, 18 oz |
|---------------|--|
| lig toc | Tinned Sheathing, 14x48, 14, 16, 18 oz |
| 1., 39: | " Boilers 7, 8, 9 37 |
| %c | Cooper Fit Bottoms 25 |
| eg, 7c | Finning Extra |
| B(0) 36c | |
| 1((1)30C | |
| 9@12 | 0 M |
| BC | |
| 360 | Tinning extra 40 |
| 250 | |
| | BRASS. |
| | |
| Listo | ROLL AND SHEET BRASS. |
| | Brown & Sharps's Gauge the Standard. |
| | New List, Jan. 17, 1884. |
| | Dis 30&30&5 ≸ |
| | Wider than f 2 to 12 24 16 18 |
| | and including, 1 to 12 14 15 18 20 |
| | To No. 20, inclusive21 .22 .23 .25 .27 .29 Nos. 21, 22, 23 and 24 .22 .23 .24 .26 .28 .30 Nos. 25 and 26 |
| 24 | Nos. 21, 22, 23 and 24. 22 .23 .24 .26 .28 .30 |
| 25 | Nos. 25 and 26221/2 .231/2 .241/2 .27 .39 .31 |
| | |
| 13 | Add 9 cts. B. D. for sheets cut to particular widths and lengths. Add 9 c. B. D. additional on each number thinner than Nov. 28 to 38 inclusive. |
| 15 | Add 1/2 c. Th. additional on each number thinner |
| 16 | than Nos. 28 to 38 inclusive. |
| | Brass thinner than No. 38 is Platers' Brass. |
| 5 50 | Printers' rules |
| 7 25 | Printers' Sheets and Plates cut to particular |
| 11 00 | sizes and lengths to No. so, inclusive 30 cts. |
| 14 50 | at |
| 14 00 | Low Brass four cis, m m, more than common High |
| 18 00 | Brass. |
| | Gilding, Oreide and Bronze seven cts. \$\mathbb{P}\$ m, more than common High Brass. |
| 5 00 | |
| 6 75 | SLITTING METAL. |
| 8 75 | Over 36 in to a in., inclusive, Nos. 12 to 20, |
| | inclusive |
| 534 | Over 1/4 in. to 1/4 in., inclusive, Nos. 12 to 20, |
| 6 | inclusive 1 ¼ in. and narrower, not less than 4 |
| | Over 16 in to 2 in., inclusive, Nos. 21 to 28 |
| 5 50 | inclusive |
| 7 50 | Over 1/4 in to 1/4 in., inclusive, Nos. 21 to 28, |
| 7 70 | inclusive |
| 5 50 | 16 in. and narrower, Nos. 21 to 28, inclusive, |
| 7 50 | Over 1/2 in. to 2 in., inclusive, Nos. 29 to 32, |
| 9 50 | inclusive 136 |
| 13 50 | Over 1/4 in to 1/2 in., inclusive, Nos. 29 to 32, |
| 18 00 | inclusive. 1½ in., inclusive, Nos. 29 to 32, inclusive. 3 1½ in. and narrower, Nos. 29 to 32, inclusive, |
| 5 50 | not less than |
| 7 50 | Over 1/2 in, to 2 in., inclusive, No. 33 and |
| 9 55 9 55 | Over 1/4 in. to 1/4 in., inclusive, No. 33 and |
| 9 33 | Over 16 in. to 16 in., inclusive, No. 33 and |
| | thinner |
| 15 | 1/4 in. and narrower, No. 33 and thinner, not |
| 0 | |
| 18 | Slit Metal cut to particular lengths, & B. ad- |
| 0 | Slit Metal cut to particular lengths, \$\mathbb{B}\$ b. additional |
| 0 18 10 | Slit Metal cut to particular lengths, \$ 10. ad-ditional |
| 0 18 10 | Slit Metal cut to particular lengths, \$\bar{\psi}\$ b. additional |
| 0 18 10 | Slit Metal cut to particular lengths, \$\bar{\pi}\$ D. additional. \$ PLATERS' OR GOLD METAL. In bars. 405. |
| 0 18 10 | Slit Metal cut to particular lengths, \$\bar{\psi}\$ b. additional |

| | Old English | | Standa | |
|-------|--------------------|----------------|---------------|-----------------------------------|
| | | High Brass, | Low Brass. | Gilding, Bronze and Copper. |
| All ! | Nos. to No. 16, | | | |
| | lusive | 8 .88 | \$.36 | \$.30 |
| | 17 and 18 | 93 | 27 | 31 |
| 64 | 19 and 20 | 94 | uB | 311 |
| 40 | 21 | -95 | 39 | 33 |
| 41 | 92 | 26 | 30 | 34 |
| ** | 23 | uB. | 39 | 36 |
| 48 | 94 | 30 | 34 | 34 36 38 40 |
| 44 | 25 | 39 | 36 | 40 |
| 44 | 26 | 35 | 39 | 43 |
| 44 | 27 | 38 | 49 | 46 |
| | ив | 48 | 46 | 51 |
| 44 | 39 | 45 | 49 | 34 67 |
| 44 | 30 | 48 | 511 | 69 |
| | 31 | 51 | 55 | 67 |
| 44 | 32 | 55 | 59 | 73 |
| 61 | 33 | 59 | 63 | Bu |
| 48 | 34 | 64 | 68 | 95 |
| 66 | 35 | 70 | 74 | 1.30 |
| 01 | 36 | 76 | Bo | 1.50 |
| 66 | 37 | 1.00 | E-Da | 1.70 |
| 64 | 38 | 1.30 | 1.34 | 9.00 |
| 06 | | 2.00 | 2.00 | 3.95 |
| 65 | 49 | 2.60 | 2.60 | 5-75 |
| pri | ng Wire, a cts. W | b, advanc | e. | |
| | tened Wire, 3 cts. | | | |

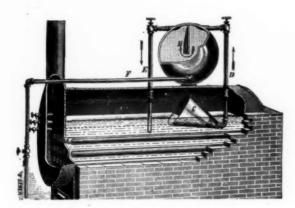
ooling on one-pound spools 29 cts. \$ \$. extra. ooling on ten-pound spools or more, 2 cts. \$ \$. BRASS TUBING.

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, sens us \$3 and you will receive it regularly for one year or six months for \$1.50.

THE HOTCHKISS MECHANICAL BOILER CLEANER

Removes from Steam Boilers, Lime, Oil, Magnesia, and all other impurities of Boiler Water, and prevents Scaling, Foaming and Burning; but the object of this advertisement is to inform you that some

®IMPOSTORS

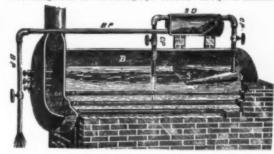


"HOW TO KEEP

CLEAN."

Compare this cut with one on left, and see if identical; the only difference being in shape of Skimmer and Drum.

S. D. Settling Drum. C. P. Circulating Pipe. B. P. Blow-off Pipe. S. Skims



FOR SALE IN THE SOUTH BY

F. BROTHERHOOD & Co., Charleston. A. W. KEY & Co., Birmingham. JOHN ROURKE, Savannah.
TALBOT & SONS, Richmond.
J. & D. NOBLE, Anniston.
LEACH & SPANDOUR, Norfolk.

JAS. I. HOTCHKISS,

86 John Street,

NEW YORK.

Keep Your Steam Boilers Clean!

"An Ounce of Prevention Worth a Pound of Cure."

SAVE YOUR FUEL!

[PATENTED JULY 21, 1885.]

The best way to cure your steam boilers of incrustation and sedimentary deposit is to keep out of the boiler that which causes incrustation and sediment.

The chief ingredients causing sedimentary deposits and incrustation are organic matter, cabonate of lime, sulphate of lime, sulphate of lime, arbonate of magnesia, sulphate or sulphuret of iron, and in salt water common salt. The WARNER PURIFIER AND HEATER is the only machine which precipitates all impurities held in suspension, heats the water to the boiling point under full boiler pressure, sparates and precipitates the mineral salts held in solution before the mater reaches the loider, and then injects the water thus purified into the boiler boiling hot. It is an automatic machine, entirely outside of the boiler, requiring absolutely on attention from the engineer except to blow off the accumulation of deposit from the bottom of the machine which acts as a mud-drum. All this is accomplished without the use of chemicals, by a purely mechanical process, regulated by the principles of natural philosophy.

No more "shutting down" of work to clean boilers—the machine does it all every day without interfering with the work, and by removing scale and preventing its formation, and heating the water to the boiling point saves a large percentage of fuel.

The WARNER HEATER AND PURIFIER COMPANY is now ready to furnish these machines on demand at very reasonable figures.

The WARNER HATER AND PURIFIER COMPANY is now ready to furnish these machines on demand at very reasonable figures.

WASHINGTON, D. C., May 23, 1885.

This is to certify that I have made a careful examination of "Warner's Combined Purifier and Heater of Feed Water" in practical operation at the "Harris House" and "Post Building," in this city, and do not hesitate to pronounce it the hest machine for the purpose ever invented. By its use water goes into the boiler free from all impurities and heated to the boiling point under full boiler pressure, and as the result of the injection of pure water, the boiler is freed from scale and heat full boiler pressure, and as the result of the injection of pure water, the boiler is freed from scale and heat he he boiler pressure, and as the result of the injection of pure water, the boiler is freed from scale and heat he he boiler pressure, and as the result of the injection of pure water, the boiler is freed from scale and heat for the boiling point hefore it enters the boiler. By the use of this machine to all celected in the bottom of the machine, which can be blowed out as many times a day as the engineer thinks proper without interfering with the workings of the boiler. I confidently commend this machine to all persons who own or use steam boilers, and am satisfied that its use will prolong the life of the boiler and make a handsome saving in the use of use.

(Signed) JOHN H. WILKERSON, Inspector of Steam Boilers for District of Columbia, 220 7th Street, S. E.

"HARRIS HOUSE," Cor. Pennsylvania Aversur and Earter, N. W.

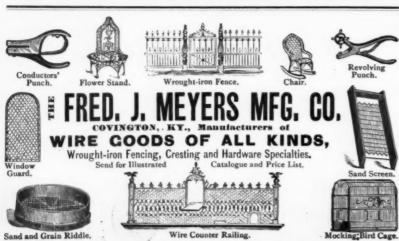
WASHINGTON, D. C., June 23, 1885.

This is to certify that one of "Warner's Purifiers and Heaters of Feed Water' has been in use on one of the boilers of the Harris House, in this city, for three months, and has proved a perfect success. The boiler upon which the machine was placed was at the time covered with a heavy scale composed of animal and vegetable matter, lime, &c., which, by the use of this machine, has been entirely removed, the boiler produc

JOHN F. DEZENDORF.

Room No. 35 Corcoran Building, WASHINGTON, D. C .-







T. C. SNYDER & CO.

IRON ROOFING, SIDING AND

PLAIN, Corrugated, CRIMPED. BEADED.



IRON ORE, PAINT. CEMENT, And Roofers' and

-PATENT CALAMINED IRON IN QUANTITIES---A New Thing.-

Coating is indestructible, will not scale, is soft, solders more strongly and is superior to Galvanized Iron or
Tin for all purposes. Protected both in body and surface.

And Circulars, Price-List
and Sample mailed at request.

CANTON, OHIO.

ONLY ASPHALT PAINT AND VARNISH WORKS IN THE UNITED STATES.

The Louisville Asphalt Varnish Co. Warrants its

ASPHALT IRON PAINT

equal to any "metallic," because made from the best Iron Oxide and Linseed Oil; and superior to them and all rivals, because it alone adds the Varnish Gum "Asphatrum," which not only hardens the surface and preserves the elasticity of the paint, but resists the action of all gases, acids and alkalies—the rusting elements. Approved in theory and in practice as THE BEST for all exposed surfaces, on Cotton Seed Oil Mills, Factories, Compresses, Warehouses, Hulls and Deck of Ships, Railroad Depots, Cars, Bridges, Trestles, etc. Colors: Red, Brown and Black. Ready for the brush. No sample cards, but the paint itself, on new tin, sent to any property owner or application. Our STACK BLACK

will prolong the life of your iron chimneys, large or small. It bakes on and will not scale off like coal-tar products.

ASPHALTUM BLACK VARNISHES.

A full line for Mauufacturers, the Trade and Family use. Address, (mentioning this paper,)

LOUISVILLE ASPHALT VARNISH CO., 19 and 20 Courier Journal Building, - - LOUISVILLE, KY.

Attention:

Architects and Construction Companies. WE HAVE SPECIAL FACILITIES FOR

****PHOTOGRAPHING * MACHINERY, ****

RAILROADS AND BRIDGES.

We also carry in stock Photographs of

BROOK LYN BRIDGE.

NEW YORK ELEVATED R. R.
BROOK LYN ELEVATED R. R.
BROOK LYN ELEVATED R. R.
STEAMERS,
Construction.

SUBURBAN RAPID TRANSIT CO.

Estimates and catalogues furnished on application to

CEO. P. HALL & SON, Photographers. 157 Fulton Street, NEW YORK.

THE BILLINGS & SPENCER COMPANY.



HARTFORD, CONN.

Finished Screw Plates

Ratchet Drills. Billings' Patent Double

Action Ratchet Drills. Tap & Reamer Wrenches. Machinists' Clamps. Ciamp, Die and Comm

Lathe Dogs. mbination Pliers, Beach's Patent

Thread-Cutting Tools, Barwick Pipe Wrenches.

DROP FORGINGS OF IRON AND STEEL OF ALL DESCRIPTIONS.



ARMSTRONG BROS.

STATIONARY ENGINES

Of from 10 up to 100 Horse-Power; also **STEAM HOILERS** of all sizes of either Steel or Iron. Send for Catalogue and Price-List.

ARMSTRONG BROS., Springfield, Ohio.



RINK AND CLUB SKATES LIBERAL TERMS TO THE TRADE.

For prices, circulars and further particulars, address

M. C. HENLEY, Patentee and Manufacturer RICHMOND, IND.

r-cent stamp for new forty-page Illustrated Catalo



est Running, Most Durable, and Most Practical Skate in the Market.



Practical Skate in the Market.

Rink men and jobbers will find the "GLOBE RINK" skate to be superior to all others, because:

It has no springs, rivets or pins to break, get loose or wear out. It will not crush the rubber cushion, as their new connecting plate prevents crushing. The wearing of the bearings being automatic, the truck frame will not become loose or rickety from long usage. The tension is easily regulated by means of the draw-bolt, to suit the requirements of any skater. The truck frame can be instantly detached without removing the draw-bolt. It is light, strong, durable, and skaters pronounce it the best skate made.

We especially call the attention of the skaters of America to our New Half-Clamp Corrugated Steel Bottom Skates, in which we pride ourselves in having the Lightest, Strongest and Handsomest Skate in the World.

For prices and catalogues address.

MITCHELL & VANNEMAN. RICHMOND, IND.



Well Tempered Brick are the Most Reliable.

The Grand Automatic makes the best tempered Brick in the world. It is the only Machine that makes better brick in every respect than can be made by hand.

JONATHAN CREAGER, 131 E. Front St., Cincinnati, O.



CHAPMAN Direct Shipper Special attention given to orders from found-ers and machinists.

0001,00001,00001.1.1.00001.00001.00001. Water Wheela Sand Co.

WHEEL. HOWELL PATENT





Il your attention to my new SUSPENSION WHEEL. It is the lightest in ill sustain more in proportion to its weight than any other. It is strictly the weight being sustained by a pull inward from the tire, the tension is not every spoke, or all alike. The strain is put upon all the spokes alike, and it a time, as in other wheels. These wheels are made with either hollow or strain is put upon all the spokes alike, and it at time, as in other wheels.

upon one only at a time, as a description one only at a description of the description of time, as a description of the description of

DIETZ, WILL & CO.

BAND SAWS, UNIVERSAL SAW BENCH, SAW MANDRELS, PONY PLANERS, MATCHERS.

Shafting, Pulleys and Hangers, Wood Turning and Pattern Makers' Lathes.

186 to 191 PEARL STREET, Cincinnati, O.



Mississippi Railway The Ohio and

IS THE BEST LINE FROM

CINCINNATI TO ST. LOUIS OR LOUISVILLE.

Four Solid Daily Trains to St. Louis. Two Daily Trains to Evansville.

Four Solid Daily Trains to Louisville.

Two Daily Trains, having Through Cars to Cairo and New Orleans.

THE SHORTEST AND QUICKEST ROUTE WEST.

10 Hours Only to St. Louis. 4 Hours Only to Louisville. 8 Hours Quicker Than Chicago Lines to Omaha.

The Only Line running a Sleeping Car of any description from Cincinnati to St. Louis.

"THE O. & M." ALWAYS makes fast time and sure connections with all Lines in Union Depots, running all trains through solid between Cincinnati and St. Louis, and is therefore the recognized first-class route between those points. For tickets, rates or any particular information, call at 48 W. 4th st., Grand Hotel, or Grand Central Station, Cincinnati, Ohio. C. W. PARIS, Passenger Agent.

W. W. PEABODY, Prest, and Genl. Manager, W. B. SHATTUC, General Passenger Agent.

CHESAPEAKE & OHIO RAILROAD

Leave Washington, B. & P. Station:

5.45 P. M.—Every day, Fast Express. Only solid train between Washington and Louisville with Pullman Palace Cars. Pullman Cars to Cincinnati.

11.15 A. M.—Fast Mail—Pullman Chair Car to White Sulphur Springs. Pullman Palace Car, White Sulphur to St. Lou s via Louisville.

CHESAPEAKE & OHIO TICKET OFFICE IN WASHINGTON, 513 PENNSYLVANIA AVENUE.

H. W. FULLER, GENL. PASSENGER AGENT.
C. W. SMITH, GENL. MANAGER, RICHMOND, VA.

MONON ROUTE.

The Pullman Car CINCINNATI, INDIANAPOLIS, CHICAGO THE NORTHY

FAST EXPRESS TRAINS LEAVE CINCINNATI

7.30 A. M. OFFICAGO DAY EXPRESS, (Except Sunday)
Por Indianapolis, Monon, Frankfort, Michigan City, Chicago, Milwaukee, St. Paul,
Minneapolis and all points in the Northwest.

6.45 P. M. OFFICAGO NIGHT EXPRESS (Daily)
For Indianapolis, Chicago, Milwaukee, St. Paul, Minneapolis, Omaha, Council
Bluffs, Davenport, Rock Island and all points in the Northwest.

PULLMAN SLEEPING CARS AND DAY COACHES THROUGH TO CHICAGO. BAGGAGE CHECKED TO ALL POINTS IN NORTHWEST.

JOHN H. GARRINON, District Pass. Agent, 129 Vine St., Burnet House Block, CINCINNATI.

JOHN B. CARSON,
General Manager, CHICAGO.

WM. S. BALDWIN.
General Passenger Agent, CHICAGO.

C. H. & D. R. R. Cincinnati, Hamilton and Dayton Hallroad. From and to CINCINNATI.

TOLEDO, SAGINAW, NIAGARA FALLS,

DETROIT, TORONTO, AND ALL POINTS IN MICHIGAN AND CANADA

CONNERSVILLE, RUSHVILLE, INDIANAPOLIS, PEORIA, AND ALL POINTS BLOOMINGTON, WEST OR NORTHWEST.

RICHMOND, LOGANSPORT, DELPHI,

CHICAGO,

MONON, AND ALL POINTS IN THE NORTHWEST.

FORT WAYNE, KALAMAZOO, GRAND RAPIDS, MACKINAW, AND ALL POINTS IN MICHIGAN.

PULLMAN PALACE SLEEPERS AND PARLOR CARS.

For information apply at any Railroad Office in the United States or Canada. In Cincinnati, Ohio, at Offices: N. W. Corner Fifth and Vine Streets, or Depot, Fifth and Hoadly Streets, or address

J. F. McCarthy, Agents at 5th and Vine Sts., Jno. R. McCord, Cincinnati, O.

SAM'L STEVENSON,

General Ticket Agent.

any sort,

refer the erection, extension, or alteration of any Mill, Factory, or Mechanical Works of fer, or Gas to be introduced, it will well repay you to send for our Catalogue and Price-List.

will be found of service to Pipe-Fitters, Engineers, Superintendents of Railroads, it and Gas Companies, and all who are interested in the use of Steam, Water, and Gas, a for the selection of such goods.

PANCOAST & MAULE, 243 and 245 South Third Street.

contemplate

Nater,
It will
e, Oil a

Gas, Mills, Factories, Gas, and is an exhaustive **Steam**

frought-Iron Pipes, Cast-Iron ipes, Boiler Tubes, Spiral iveted Wrought-Iron Pipes, ast-Iron Fittings, Wrought-Iron Fittings, Malleable Iron Fittings, Malleable Iron Fittings, Malleable Iron Ettings, Bent Coils of Wrought on Pipe for Heating, Boiling, c., Steam Radiators. Brass and Iron Cocks and Valves, Raator Valves, Openway Valves, oiler Trimmings, Gauge-Cocks, eam Gauges, Water Gauges, eam Whistles, Lubricators, Oil da Tallow Cups, Revolution outers, Gongs, Steam Boiling ettles, Feed-Water Heaters, Lee Cleaners, Steam Boiling ettles, Feed-Water Heaters, sessure Regulators, Damper egulators, Steam Traps, Glue caters, Injectors, Inspirators, eam Fumps, Syphon Pumps, ngine Governors, &c.

Contractors for Steam-Heating Apparatus of all kinds.

Water

Wrought-Iron Pipes—Plain and Galvanized, Heavy Cast-Iron Pipes, Fittings of all kinds, Cast-Iron Soil Pipe, Green-House Boilers, Pipe and Fittings, Pumps of every description—Steam- or Hand-Power, Fire Hydrants and Valves, Street Main Valves, Foot Valves, Hose Valves, Pipes, Couplings, &c. Bath Boilers, Brass Water-Cocks and Valves in Detail.

Gas

Wrought- and Cast-Iron Pipes, Cast, Wrought, and Malleable Iron Fittings, Brass Fittings, Service and Meter Cocks, Gas Burners, Solder Furnaces, Gas Valves, Street Lamp-Posts and Lauterns, Gas-Fitters Tools and

Tools

Hand and Power Pipes-Cutting and Threading Mau...nes, Pipe Stocks and Dies, Pipe Taps, Drills and Reamers, Machinists' Taps, Drills and Reamers, Machinists' Taps, Solid Bolt Dies, Pipe-Tongs, Adjustable Tongs, Pipe-Wrenches, Monkey-Wrenches, Gas-Fitters' Plyers, Augers, Pipe-Cutters, Pipe Vises, Chiaels, Ratchets, Gas-Fitters' Pumpa, Boiler Tube Brushes and Cleaners, Boiler Tube Expanders, Hydraulic Punches and Jacks, Patent Hand Hoisting, Machines, Oilers, Hammers, &c.

Correspondence solicited from parties requiring any Goods in the above lines.

MENTION THIS PAPER WHEN YOU ADDRESS US

McShane + Bell + Foundry

W. J. CLARK & BRO.

Hydrants.

These Hydrants are made of the best material, and are guaranteed to be entirely non-wasting and non-freezing. The works of these Hydrants can be taken out and repaired without breaking the ground. E Send for circular.

38 N. Holliday Street, BALTIMORE, MD.

NOVELTY WORKS. 1837.

JAMES MURRAY & SON. Machinists and Millwrights

Engines and Boilers, Mills of all kinds, Marine Railways, &c. Improved Clay Tempering Ma-chinery, Steam or Horse Power. Phosphate Machinery, Crushers, Rollers, Mixers, &c., &c.

40, 42 & 44 York Street, NEAR LIGHT. BALTIMORE.

Repairing of all kinds promptly done

Established 1793.



H. BALDERSTON & SON,

MANUFACTURERS OF WIRE GRATING FOR WINDOWS

Doors and Office Railing, Wire Screens for Banks, Churches and Store-Fronts. Woven Wire, Wire Tree-Guards, Sieves, Screens for Coal, ≿and, &c.

66 S. Calvert Street, Baltimore.

WIRE RAILING

and Ornamental Wire Works.

DUFUR & CO. 36 N. Howard St., Baltimore Wire Railing for Cemeteries, Lawns, Gardens, Offi-ces and Balconies; Window Guards, Tree Guards, Wire Cloth, Sieves, Fenders, Cages, Sand and Coal Screens, Iron Redsteads, Chairs, &c.



Church § School Bells

Sizes and prices.

Diam. Wg't with Cost of of yoke & Bell & Frame. Hang's No. 6, 25 in...230 lbs...\$25 No. 6, 25 in...240 lbs...\$6 No. 7, 30 in...490 lbs...\$6 No. 7, 30 in...490 lbs...\$7 No. 9, 38 in...925 lbs...\$1 No. 9, 38 in...925 lbs...\$1 No. 9, 38 in...925 lbs...\$1 No. 9 and No. 7 No. 9 and No. 9 and

83

CINCINNATI PATTERN WORKS

Artistic, Architectural and Machine Patterns Of Every Description Made on Short Noti

N. W. COR. FRONT & PIKE STS.

Jobbing Promptly Done. CINCINNATI, O.



The Curtis Regulator Co. 158 Beverly St., BOSTON, MASS.



4 4 5 1 E) \$ 1 5 1 C

With STEEL FACED or SOLID STEEL SLIDING JAW, and ADJUSTABLE ATTACHMENTS. Superior in Mate, Orig, Eventh and Denshilty, and more economical in Time and Labor than any other Vise. Jewelers, Machinists in general, and Car and Locomotive Builders in particular, will find them especially adapted to their need. Also STEPHENS' PATENT PLANER CHUCKS. Sold by hardware, machinery and tool dealers. Send for descriptive circular and price-list.

alar and price-list.
MELVIN STEPHENS, Proprietor,

ALBANY STEAM TRAP COMPANY'S

SPECIAL BUCKET And GRAVITATING Traps.

Automatically drain the water of condensation from HEATING COILS, and returns it to the boiler, whether coils are above or below the water level in boiler, doing away with pumps and other mechanical devices for such nurroses. such purposes.

Also, "Blessing's Patent Renewable Seat Valves."

ALBANY STEAM TRAP COMPANY, Albany, N. Y.

Office and Works, 78 and 80 Church Street.



Of Superior Quality.

🕯 🚱 PULLEYS, HANGERS, COUPLINGS, &c.

PATENT SELF-OILING HANGERS,
PATENT INTERNAL CLAMP COUPLINGS,
PATENT FRICTION CLUTCHES. A. & F. BROWN, 43 Park Place, N. Y.

ueener & woods

168 & 170 E. Third St., Hunter's Point LONG ISLAND CITY, N. Y.



MANUFACTURERS O COAL DEALERS AND STEVEDORES' SUPPLIES. STEEL and IRON COAL TUBS,

Side and Bottom Dumping Cars, Coal and Coke Barrows, HOISTING BLOCKS, ETC.

Send for Circulars, &c.

PATENT



Made in Halves, Same Price as Whole Pulleys.

Shafting, Hangers.

Castings of Every Description Made. Stationary, Distil-lery, Mill and Boiler

Work. JNO. N. MARQUETTE,

No. 6 W. Falls Avenue, Baltimore, Md.



JOHN T. COLEMAN & SONS.

Steam Boiler Works.

Cor. Holliday and Pleasant Sts., Baltimore,



W. LOANE 13 N. Gay Street, BALTIMORE.

Manufactures and sells at lowest rates

TENTS, AWNINGS, FLAGS Canvas Horse Covers, Plain and Oiled, Yellow and Black.

GIVE HIM A CALL. ORDERS OR ENQUIRIES BY MAIL RECEIVE PROMPT ATTENTION.

They street St. Screens . I. Send . Sole Area Set. Simple, Ensily h wrong. PNION are

BERNHARD DIETZ Manufac-Printers Rollers, and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 30 cents per B.; for Casting, also, 30 cents per B. Orden by Mail promptly attended to.

Wood-Working & Machinery



Planing Mills, Furniture and Chair Factories and Agricultural Works, Carriage and Buggy Shops, and

CENERAL WOOD WORKERS

THE EGAN CO.

228 to 248 West Front St., Cincinnati, O., U. S. A.

Economy

Unexcelled, Durability

Guaranteed.



POSITIVELY

WILL NOT

EXPLODE.

Safety Steam Generator Com'py, 68 Warren Street, New York.

John G. Mengel & Co.

Type-Founders and Electrotypers

Modern Book, Newspaper, and Job Type cast in a superior Copper-Mixed Metal, and on the new

JUSTIFIABLE SYSTEM OF BODIES.

LARGEST PRINTERS' SUPPLY HOUSE in the SOUTH

Dealers in and Agents for all the leading Cylinder and Job Presses, Paper-Cutters, &c., &c.

Agents for the Gelebrated German Printing Inks.

SECOND-HAND MACHINERY Bought, Sold, and Exchanged.

Complete Newspaper and Job Offices Furnished at the Lowest Prices and on good terms. Send for Specimen Sheets, Estimates, &c., to

31 German Street, Baltimore.

OFFICERS AND ELIZABETH B. PHELPS, Pres.
MARGARET HOLCOMBR, Vice-Pres.
EMILY TAYLOR,
Elizabeth S. Roberts, H. Louise Gates,

This company is the pioneer in throwing down the bars of unjust discrimination against women in the insurance. Statistics and common observation prove mortality to be in favor of females at every age, and married as well as single. To remove this prejudice, and to secure to women an equal estimation in her insurability, the promoters of this enterprise have devoted themselves. Consistently with this principle WOMEN AND McN are equally insured in this company without discrimination on account of sex.

iris FLAN
rance at cost, and embraces the best features
ssociations, with such improvements added as
experience has shown to be destrable for the
dvantage and the security of the association.

and ACCIDENT COMPANY.

DIRECTORS:
RLIZABETH HARDENBURGH, Trea
CORNELIA KAMPING, Actuary.
Secretary.
Charlotte Mulligan, M. F. Hoagland.

MARGARET HOLCOMBE, Vice-Pres,
EMILY TAYLOR,
Elizabeth S. Roberts, H. Louise Gates,
ALFRED K. HILLS, M. D., 465 Fifth Avenue.

JOHN A. KAMPING, Actorney and Counsel, 198 Broadway, New York.

ITS OBJECT.

Incorporated under the Laws of New York.

This company avoids complicated schemes and plans by means of which impossible results are promised. Its contracts are plain, easily fulfilled and liberal. It issues the following forms:

1. Ordinary Life Policy, \$100 to \$10,000.

2. Ordinary Accident Policy, \$5,000 death indemnity; \$25 weekly.

3. Combined Life and Accident Policy.

4. \$500 Savings Bond.

BANKURE:

BANKURE:

4. \$000 Savings Bond,
Bankers:
Bank OF THE METROPOLIS, New York City.
Depository of Reserve Fund
FARMERS' LOAN AND TRUST CO., New York City The officers would be pleased to furnish any further particulars which may be desired in relation to the Company's affairs, or the way to obtain a policy, affairs are desired in every city, village and district segments are desired in every city, village and district Address all communications to the

WOMEN'S MUTUAL INSURANCE AND ACCIDENT CO.,
128 BROADWAY, NEW YORK.

CAREW'S * PATENT * WIRE * CUTTER



The advantage of this cutter is seen at a glance. The adjustable jaws are its main feature. These are de of the best tool steel, and are brought to a keen cutting edge before being tempered. The cutting quality nuturpassed. Whenever they become dulled by use, they can easily be removed, by diving from the end wing price-mark, ground, and as easily replaced. This may be repeated as often as expedient; or they can replaced by duplicate jaws, thus obviating the necessity of purchasing sew cutters. Five sizes 6, 8, 12 and 14 inch. If your merchant does not keep them, address

M. W. ROBINSON. Sole Agent, 79 Chambers St., N. Y.

H. J. MCKEOWN,

MACHINIST * AND * MILLWRIGHT.

Shafting, Hangers and Pulleys, Engineers' Supplies, Packing, Sheet Gum, Pipe, Fittings, and Brass Goods. Special attention given to fitting out shoe and other factories, and to the repair of Gas Engines. Has now on hand five Wais' Patent Power Combined Splitting and Squaring Shears, which are new, and may be had on reasonable terms. Also dealer in New and Second Hand Machinery of all kinds, Write for Catalogues.

196 E. FRONT STREET, CINCINNATI, OHIO.

WORCESTER, MASS.

W. L. SHEPARD, Proprietor.

This House has been thoroughly repaired and renovated, and will be KEPT STRICTLY FIRST CLASS IN EVERY RESPECT.

The Only First-Class Hotel in the City.

Massasoit

SPRINGFIELD, MASS.

M. & E. S. CHAPIN, Proprietors,

Near the Union Depot.

THOROUGHLY FIRST-CLASS.

Colonnade Hotel,



Chestnut St., Cor. 15th,

One block from new Penna, Railroad Depot

PHILADELPHIA.

H. J. & G. R. CRUMP. E. A. GILLETT.

FAVORITE RESORT FOR ALL SOUTHERN TRAVEL.

"Nothing is denied to well directed Diligence."

MYERS SANITARY DEPOT.

MEW YORK.

SPECIALTIES IN PLUMBERS' SUPPLIES.

IOHN R. EDWARDS. Blank Book Manufacturer,

LITHOGRAPHER, PRINTER AND STATIONER, 167, 169 AND 171 W. LOMBARD ST. COR. SHARP ST.

*BALTIMORE, MD.+

Specialty: Account Books to order for Manufacturing Establishments, Banks and Insurance Companies. Estimates Furnished.

WORK-SHOPS

Without Steam Power

SHOULD USE

BARNES ers compete with steam power.

Machines on trial if desired.

Proof of value, prices, full detail, illustr'd catalogue, free.

W.F. & John Harnes Co.

Hoc't ford, Ill.

Address No. 221 Ruby St.



FROM 1-4 to 15,000 lbs. WEIGHT.

True to pattern, sound, solid, free from blow-holes, and of unequaled strength.

Stronger and more durable than iron forgings in any position or for any service whatever.

40,000 CRANK SHAFTS and 30,000 GRAR WHEELS of this steel now running prove this.

CRANK SHAFTS and GEARING specialties.

STEEL CASTINGS of every description.

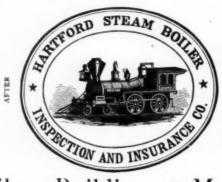
Send for Circulars and Prices to

-+ CHESTER STEEL CASTINGS CO.+-

Office, 407 Library Street, Philadelphia.

Works, Chester, Pa.

POLICIES OF INSURANCE



CAREFUL INSPECTION

Damage to

Boilers, Buildings Machinery

ARISING FROM STEAM BOILER EXPLOSIONS.

The Business of the Company Includes All Kinds of Steam Boilers.

Full information concerning the plan of the Company's operations can be obtained at the COMPANY'N OFFICE, Hartford, Conn., or at any agency.

W. B. FRANKLIN, Vice-Prest. J. B. PIERCE, Secty.

----BOARD OF DIRECTORS :-

J. M. ALLEN, President.
LUCIUS J. HENDEE, President Ætna Fire insurance Co.
EW. CHENENY, Asst. Treas. Cheney Bros. Silk Mig. Co.
CHARLES M. BEACH, of Beach & Co.
DANIEL FillLiPs. of Admins Express Co.
EW. CHENDER, Seventary Ætna Life insurance Co.
EW. H. ARVIER, Seventary Ætna Life insurance Co.
EW. CHONGER, Seventary Ætna Life insurance Co.
EW. CHONGER, Seventary Ætna Life insurance Co.
LEVERETT BRAINACD, of Case, Lockwood & Brainard,
LEVERETT BRAINACD, of Case, Lockwood & Brainard.
HON. A. CROBINSON, Attorney at-Law, Hartford.
HON. B. C. ROBINSON, Attorney at-Law, Hartford.

LAWFORD & McKIM, Agents for Maryland, 108, Holliday St., Baltimore, Md.



JAMES LEFFEL'S IMPROVED

MADE BY JAMES LEFFEL & CO.

The "OLD RELIABLE" with Improvements making it the Most Perfect Turbine new in use, comprising the Largest and the Smallest Wheels under both the Highest and Lowest Heads in this country. Our new Pocket Wheel Book sent free, Address

JAMES LEFFEL & CO.,

SPRINGFIELD, OHIO.

AND 110 LIBERTY STREET, NEW YORK CITY.

Sheet and Platers'

BRASS and COPPER TUBING.

BATTERY and PLATERS' SILVER, &c.

PHILIP R. VOGEL, JR.

Manufacturers' Avent

No. 79 German Street Baltimore Md.

Chart showing the quarterly increase of our business. Heavy Lines are Horse Powers.

Light Lines, number of Engines. SOME FACTS. Up to May 1st, 1885, TWENTY-ONE PER CENT. of our sales have been bona fide REPEAT-ED ORDERS (2 to 12) from actual users (not agents) and do not include about twenty-five exchanged engines, all of which are counted as single sales. About half of the exchanges were from defective engines, the balance for increased power or automatic cut off, the difference being paid in many cases. From 800 to 1,000 have displaced other engines. On the contrary, we know of but three parties, who, having bought one Westinghouse Engine, have failed to give us their subsequent orders. We have learned of but six second-hand engines being offered for sale, all of which were either from fire or failures. Nine engines (our ear liest) or failures. Nine engines (our earliest) were thrown back on our hands altogether. This is our record, with about 1,500 en-gines running.

SEND FOR ILLUSTRATED

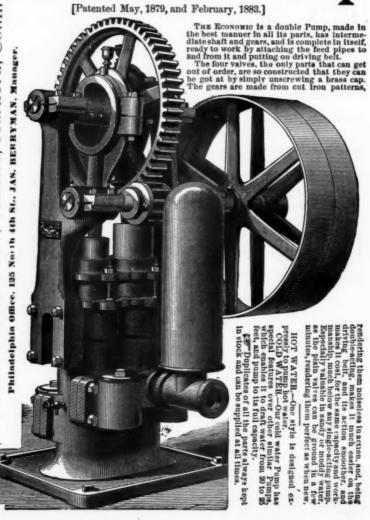
1882 1883

estinghouse Machine Co., Pittsburgh, P

Westinghouse, Church, Kerr & Co., 17 Cortlandt St., New York. Fairbanks, Morse & Co., Chicago, Cincinnati, Cleveland, Louisville & St. Paul. Fairbanks & Co., St. Louis, Indianapolis & Denver. Parke & Lacy, San Francisco and Portland, Oregon. Parke, Lacy & Co., Salt Lake City, Utah, and Butte, Montana. D. A. Tompkins & Co., Charlotte, N. C. Keating Implement & Machine Co., Dallas, Texas. Robert Middleton, Mobile, Ala. H. Pouldey Coleman, 9 Perdido St., New Orleans, La. Imray & Co., Sidney and Melbourne, Australia. R. Rogers, 43 Rue Lafitte, Paris. F. E. Averill, Delft, Holland.

→THE ECONOMIC PATENT

Boiler Feed Pump





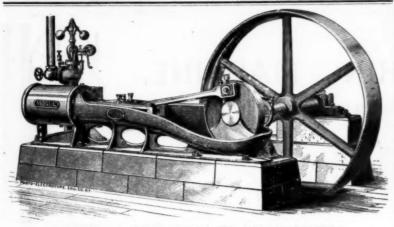


P. PRYIBIL, 467 W. 40th St., New York.

SUPERIOR WOOD-WORKING

MACHINERY, Shafting, Hangers, Pulleys, &c. Vrite for 72-page ill trated catalogue.





THE "MOGUL" ENGINE. (NEW DESIGN.)

ngs Extra Large, Compact, Simple, Strong, Durable, and of Superior Workmanship and Materials. BUILT BY-

ERWIN McKAIG, - - - Cumberland
Also Manufacturer of Boilers, Pulleys, Shafting, &c. Send for catalogue Cumberland, Md.

311 to 315 North St., Baltimore, Md.

LES & RASH

Made from the Best Refined Cast Steel.

With the requisite facilities to produce a first-class arti-, we are enabled to offer Files that will give entire

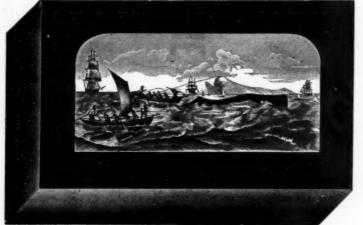
MORITZ & KEIDEL, Agents, 48 & 50 German Street, Baltimore, Md.

The Oldest Oil House in the City. Business Established 1832 (on Present Premises.)

WM. C. ROBINSON & SON.

81 SOUTH ST., BALTIMORE, MD.





Specialties-Oils for Cotton and Woolen Mills, Railroads, Tanners' and Machinery Use. Our Colophine Cylinder Oil is the best in use, 650° fire test, 28° gravity. Perfect Engine Oil 600° fire, 20° gravity. Colophine Engine Oil 550° fire test, 23° gravity. Agent for Downer's Spindle, Champion Mineral Sperm, Meriam & Morgan's Paraffine Co's Paraffine, William's Odorless Lubriphene Oils. Also nofacturers' Agent for 25°, 28° and 30° Paraffine, and 31° Neutral Bloomless Oils. Correspondence: solicities.

Having a Stock of Repairs for over 12,000 different Stoves, can we not make it to your advantage to trade with us? PROMPT SHIPMENTS AND SATISFACTION GUARANTEED.

The W. C. Metzner Stove Repair Co. 125 & 127 W. Randolph Street, CHICAGO. CATALOGUE SENT FREE.

Queen City Printing Ink Co.

CINCINNATI, OHIO.

·WITH WHICH THIS PAPER IS PRINTED.

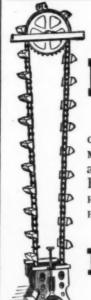
MANUFACTURERS OF ALL DESCRIPTIONS OF

≪Varnishes and Sizes→

FOR PRINTERS' USE.

New York Office, - - - 194 William Street.

Philadelphia Office, - 434 Walnut Street.



ANTI-FRIGTION Roller Detachable Chain Belting

Especially adapted for the rapid and economical handling of CLAY, TILE, LIME, PLASTER, CE-MENTS, BROKEN STONE, COAL, ORES, SAND, DRY and WET TAN, SAW DUST, SLABS, PULP, GRAIN, FLOUR, ICE, &c., &c., &c. For ELEVATORS, CAR-RIERS, CONVEYERS, &c., &c. Propelling STEAM BOATS and for other DRIVING PURPOSES.

Roller Chain Belting Co.

COLUMBUS, OHIO.

Send for Illustrated Catalogue.

Flour and Saw Mills, Drug and Chemical Works, Portable Mills, Smut Machines, Mill Stones. Bolting Cloths, Brushes, Guano Fertilizer
Mills, and General Mill Supplies,

261 S. Caroline Street, BALTIMORE, MD.

40 Horse Power VERTICAL BOILER

This Boiler was built to order, of very best materials used but a short time, and is much better than most of the vale at HALF-PRICE, with fixtures, &c. Is a RARE it-hone HORIZONTAL ENGINE; very strong and h han most of the new boilers now made. Cost to build, \$650. For Is a RARE BARGAIN. Ready for immediate delivery.

JOSEPH B. MATTHEWS. 41 Centre Market Space BALTIMORE, MD.

IMPROVED * WOOD-WORKING * MACHINERY

U. S. 24-inch Endless Bed Single Surfacer. For Planing Mills, Sash, Door and Blind Factories, Chair and Cabinet Makers,
Furniture Factories, Carriage, Wagon and Buggy Shops, Car, Agricultural Implement Works, and

GENERAL WOOD-WORKERS

Modern Tenoning Machine

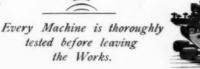


42 inch Band Saw

KEYSTONE FLOORING MACHINE,

E ARE THE MANUFACTURERS OF THE CELEBRATED-

Of which over **TWO HUNDRED** have been sold during the past Two Years.





Keystone Flooring Machine,

All our machines are warranted as represented.



Bracket Band Saw



9-inch Four Sided Moulder



No. 1 Saw Bench



No. 2 Single Surfacer



The "Philadelphia" Endless Bed D. S

→GOODELL & WATERS, Philadelphia, PENNA.

Branch Stores, 11 to 13 S. Canal St., Chicago, Ill., and 115 Liberty St., New York City.

SPENCER Repeating SHOT-CUN.

WILL FIRE SIX TIMES IN THREE SECONDS.



Unequaled for SEND FOR racy and Rapidity of Firing, Simplicity of Construction, Has won the Medal First-Class over all Competitors, New Orleans Exposition, Championship Badge four times Convenience Safety, ILLUSTRATED CATALOGUE Within five months. Connecticut Individual Workmanship, of. Loading, Force, Etc. Accu-

KNOWLES STEAM PUMP WORKS,

Single and Duplex Steam and Power Pumping Machinery

44 WASHINGTON ST.

BOSTON.

93 LIBERTY ST. NEW YORK.





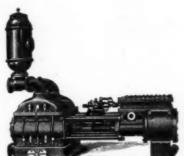


Price-Lists.

SEND FOR

ILLUSTRATED

ATALOGUE.







ESTIMATES

FURNISHED



CORRESPONDENCE

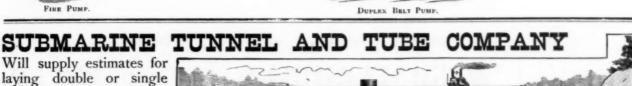
SOLICITED.



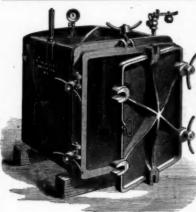


Will supply estimates for laying double or single Railway Tunnels, Water Mains or Tubes across any bay or channel. Correspondence solicited.

Office, 95 Liberty Street, Room 2,







DOUBLE SEAMING MACHINES FOR ROUND, SQUARE AND OVAL CANS Hand and Power Circular Shears. Fort and Power Squaring Shears.

CANNING MACHINERY, steam Chests, Can Fillers, Soldering Machines, Engine Lathes, Shapers and Milling Machi Special Machinery of Every Description for Manufacturing Sheet-Metal Goods.

143 Plymouth Street, BROOKLYN, N. Y.



38 and 40 Hawley Street, BOSTON, MASS.



EMERY WHEEL MACHINERY AND TOOLS A SPECIALTY.

Automatic Knife-Grinding Machines, Wood-Polishing Wheels, Emery, Quartz, Corundum Grinders and Polishers' Supplies. Catalogue on application.





Newell's Cotton Seed Huller & Separator.

IMPROVED 1885, with AUTOMATIC FEEDER.

Capacity from ½ to 4 tons of Seed per hour. Hullers for Oil Mill, Plantation and farm use. Mills for grinding Bone, Clay and Cotton Seed.

Send for cuts and prices. Write for testimonials.

ROBT. WETHERILL & CO



ESTABLISHED 1872.

Corliss Engine

▼BUILDERS.►

Compound.
Great Economy, Durability,
Close Regulation.

BOILERS,

Shafting and Gearing.

CORLISS PUMPING ENGINES



STEAM, GAS AND WATER Valves and Gates. Fire Hydrants

With or Without INDEPENDENT VALVES. General Office and Works.

INDIAN ORCHARD, MASS.

Mason Building, 72 Kilby and 112 Milk Sts., Boston.

ET ALL WORK GUARANTEED.

ed for Descriptive Circulars and Price-List. Correspond

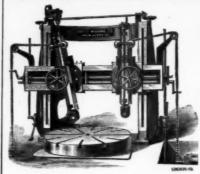
THOMAS K. CAREY & CO.

25 S. Charles Street, BALTIMORE, MD.

Manufacturers Pure Oak Tanned Leather Belting



Lace, Picker and Belt Leather, Roller Skins, Roller, Clearer and Slasher, Cloths, Ring Travelers, Bobbins, Shuttles, Cotton Belt, Eleator Buckets, Spiral Conveyers, nd Mill Goods of all kinds.— Rubber Hose, Gaskets, Valves, nsertion, and Rubber-Back Packng, Tubing, Cotton and Linen Iose, Springs, and Mechanical se, Springs,



Improved Machine Tools Boring and Turning Mills

Southwark Foundry Machine Co.

430 WASHINGTON AVE., PHILADELPHIA, PA.

Allen and Southwark Engines, Blowing Engines, Gas Apparatus, Hydraulic Machinery.

This Company owns and operates three Mills, as follows:

Patapsco Mill A, Ellicott City, Md. Patapsco Mill B, Baltimore, Md.

Patapsco Mill C, Orange Grove, Md.

-Having a daily capacity of 1,500 barrels.

ASK YOUR GROCER FOR

Patapsco Superlative Patent. Patapsco Choice Patent. Patapsco Family. Cape Henry Family. Patapsco Extra. North Point Family. Chesapeake Extra. Bedford Family. Orange Grove Extra

A. GAMBRILL MNFG CO.

Office, 32 Commerce St., Baltimore, Md.

Buffalo Shaving and Ventilating



SATISFACTION GUARANTEED In . Every . Instance.

SEND FOR CATALOGUE AND

\$490 * BROADWAY. * BUFFALO, * N. * Y.